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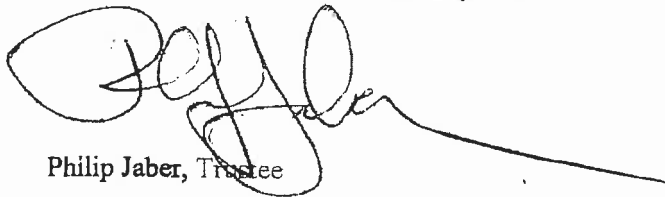
Mr. Mark Detterman  
Alameda County Environmental Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

Re: Former Olympic Service Station  
1436 Grant Avenue  
San Lorenzo, California  
ACEHD Case No. RO0000373, GeoTacker No. T0600102256

Dear Mr. Detterman:

I declare, under penalty of perjury, that the information and or recommendations contained in the attached document are true and correct to the best of my knowledge.

Sincerely,  
George and Frida Jaber 1989 Family Trust

A handwritten signature in black ink, appearing to read "Philip Jaber", with a long horizontal line extending to the right.

Philip Jaber, Trustee



3330 Cameron Park Drive, Ste 550  
Cameron Park, California 95682  
(530) 676-6004 ~ Fax: (530) 676-6005

July 31, 2014  
Project No. 2115-1436-01

Mr. Mark Detterman  
Alameda County Environmental Health Department  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

Re: **Well Installation and Site Assessment Report**  
Former Olympic Service Station  
1436 Grant Avenue, San Lorenzo, California  
LOP Case #RO0000373

Dear Mr. Detterman:

Stratus Environmental, Inc. (Stratus), on behalf of Mr. Philip Jaber and the George and Frida Jaber 1989 Family Trust, has prepared this *Well Installation and Site Assessment Report* for the Former Olympic Service Station located at 1436 Grant Avenue in San Lorenzo, California (the site, see Figures 1 and 2). Alameda County Environmental Health Department (ACEHD) currently regulates an environmental case on the subject property relating to a historical release of motor vehicle fuel to the subsurface. Stratus recently directed the installation of four remediation wells intended to be utilized in conjunction with a dual phase extraction (DPE) corrective action project approved for the property by ACEHD. In addition, Stratus oversaw the installation of four groundwater monitoring wells intended to allow for further assessment of subsurface conditions west-northwest (generally downgradient) of the former service station. This report provides a description of work activities completed during the recent drilling and subsurface assessment, and presents a discussion of findings associated with performance of these tasks.

## **SITE DESCRIPTION**

The subject site is located on the southern corner of the intersection of Grant Avenue and Channel Street in San Lorenzo, California. The site previously operated as an Olympic service station; it is currently operated as San Lorenzo Auto Repair. The current configuration of the property is depicted on Figure 2.

The adjoining property to the southwest and south is developed as the Arroyo Center strip mall. Properties to the north and northwest (across Grant Avenue) are developed as single family detached residences, and the property to the east and northeast (across Channel Street) has been developed as multi-family housing units (apartments or

condominiums). A parking lot and athletic fields for Arroyo High School are situated on property north of Grant Avenue, across the intersection.

## **SITE BACKGROUND SUMMARY**

The following information has been summarized based on information presented in reports prepared by Reese Construction, Aqua Science Engineers, Inc. (ASE), and Conestoga-Rovers & Associates (CRA), and work performed by Stratus.

The former underground storage tanks (USTs) and associated product dispensers were removed in 1998. Four groundwater monitoring wells (MW-1 through MW-4), five soil vapor sampling points (SV-1 through SV-5), three extraction wells (EX-1 through EX-3), two ozone injection wells (IW-1 and IW-2), and nineteen exploratory soil borings (BH-A through BH-C, B-1 through B-13, and B-13A through B-13C) were installed between 1999 and 2011. Locations of the wells, vapor sampling points, and soil borings are shown on Figure 2. Drilling and well construction details are summarized in Table 1.

Chemicals of concern (COCs) at this site include gasoline-range organics (GRO)/total petroleum hydrocarbons as gasoline (TPHG), benzene, toluene, ethylbenzene, and xylenes (BTEX), and the gasoline additive methyl tertiary butyl ether (MTBE). Between 1999 and 2013, groundwater levels beneath the property have ranged between approximately 5.2 and 8.4 feet bgs. The site is currently under a semi-annual groundwater monitoring and sampling program, which has been recently modified to incorporate wells installed during the current phase of work.

Groundwater samples have historically been analyzed for diesel-range organics (DRO) and the fuel additives di-isopropyl ether (DIPE), tertiary amyl butyl ether (TAME), ethyl tertiary butyl ether (ETBE), tertiary butyl alcohol (TBA), 1,2-dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), and ethanol. These analytes are not currently included in the groundwater analytical suite.

In general, most soils situated in the upper 15 to 18 feet of the subsurface appear to be predominately fine grained (mixtures of silt/clay, exclusive of fill material). Below this depth, to approximately 25 feet bgs, soil strata have been described as silty sand, clayey sand, and sand. Shallow groundwater monitoring wells installed during this phase of investigation (MW-5A and MW-6A) were intended to be exclusively screened within the shallow, finer grained soils, whereas the deeper groundwater monitoring wells (MW-5B and MW-6B) were intended to be screened within the deeper, sandier soils.

Most of the petroleum hydrocarbon impact to the subsurface appears situated above approximately 20 feet below ground surface (bgs), and in relatively close proximity to the former USTs and fuel dispenser islands (discussed later in this report). Given this condition, site geologic conditions, depth to groundwater levels, and our general understanding of the distribution of contaminants beneath the property, DPE was selected

as a possible remedial alternative for the site. In June 2011, a DPE pilot test was performed at the site, using wells EX-1 through EX-3 for extraction. Based on the findings of this test, DPE was deemed by Stratus to be a viable remedial alternative for the site. Stratus subsequently prepared a Corrective Action Plan (CAP) for the property, recommending use of DPE at the site, and that four additional remediation wells (EX-4 through EX-7) be installed prior to implementing DPE full-scale. Stratus intends to initiate DPE during the summer of 2014, using wells EX-1 through EX-7 for extraction.

## **SCOPE OF WORK**

The objectives of the recently completed site work were to:

- Install additional wells to be used during DPE remediation.
- Further assess the extent of fuel contaminant impact to the subsurface in the site vicinity.

To accomplish these objectives, Stratus implemented the following work activities:

- Drilled and installed four (4) 4-inch diameter extraction wells (EX-4 through EX-7) to approximately 20 feet bgs using 10-inch diameter hollow stem augers.
- Drilled and installed two (2) 2-inch diameter groundwater monitoring wells (MW-5A and MW-6A) to approximately 10 feet bgs using 8-inch diameter hollow stem augers.
- Drilled and installed two (2) 2-inch diameter groundwater monitoring wells (MW-5B and MW-6B) to approximately 20 feet bgs using 8-inch diameter hollow stem augers.
- Collected soil samples during the advancement of borings EX-4 through EX-7, MW-5B, and MW-6B.
- Developed and sampled each newly installed monitoring and remediation well.
- Updated the monitoring well survey for the subject site.

## **FIELD ACTIVITIES**

Prior to initiating site assessment activities, a drilling permit and an encroachment permit was obtained from Alameda County Public Works Agency (ACPWA). Underground Service Alert, the Jaber's, the property tentant, ACPWA, and ACEHD were notified 48 hours prior to beginning work activities. All work was conducted under the direct supervision of a State of California Registered Professional Geologist. A generalized description of the field practices and procedures utilized during this investigation are described in Appendix A. Copies of the drilling permit and encroachment permit are provided in Appendix B.

Stratus had intended to install two wells (proposed MW-7A and MW-7B) north-northwest of the site, in the median or left turn lane of Grant Avenue. Due to a conflict with underground utilities, these wells could not be installed in this area. Relocating the well borings would have required drilling and future well sampling within an active travel lane of Grant Avenue (either westbound or eastbound), and due to safety concerns about these locations, Stratus elected not to install wells MW-7A and MW-7B.

## **Soil Borings**

A Stratus geologist was onsite to oversee Penecore Drilling, Inc. (C-57 license no. 906899) complete the drilling activities on February 20 and 21, and May 28, 2014. The soil and well borings were advanced using a limited access hollow stem auger drill rig equipped with 8-inch or 10-inch diameter hollow stem augers, as appropriate. Each boring was converted to a remediation or groundwater monitoring well, as described below. Well locations are depicted on Figure 2, and information regarding the construction details of wells EX-4 through EX-7, MW-5A/B, and MW-6A/B, is summarized on Table 1.

The initial 5 feet of the well borings were advanced with hand tools to reduce the possibility of damaging underground utilities. Soil samples were collected from the borings using 5-foot length by 2.5-inch diameter acetate liners installed within a direct push coring device. The ends of the acetate liners (cut to approximately 6-inch length) were lined with Teflon™ sheets, capped, and sealed. Each sample was labeled, placed in a resealable plastic bag, and stored in an ice-chilled cooler. Strict chain-of-custody procedures were followed from the time the samples were collected until the time the samples were relinquished to the laboratory. Soils were classified onsite using the Unified Soil Classification System. Boring logs detailing soil and lithologies encountered during this investigation are included in Appendix C. The boring logs were also uploaded to Geotracker (GeoBore); confirmation sheets documenting uploading of these boring logs are provided in Appendix G.

Additional soil from each sampled interval was placed and sealed in plastic bags to allow the accumulation of volatile organic compound (VOC) vapors within the airspace in the bags. A portable photoionization detector (PID) was used to measure VOC concentrations from each sample in parts per million by volume (ppmv). PID results are included on the boring logs presented in Appendix C. PID concentrations and soil types were evaluated prior to submitting soil samples for chemical analysis.

## **Remediation Well Installation**

Wells EX-4 through EX-7 were constructed through 10-inch diameter hollow stem augers using 4-inch diameter schedule 40 PVC well casing and 15 feet of 0.02-inch diameter well screen, extending from approximately 5 to 20 feet bgs. A filter pack of #3

sand was placed in the annular space around the well screen from the bottom of the borehole to approximately 1.5 feet above the top of the well screen. Approximately 1 foot of bentonite was placed on top of the filter pack and hydrated with clean water to provide a transition seal for the well. The remaining annular space in the borehole was backfilled with neat cement. A traffic rated vault box was placed over the well, and a watertight locking cap was placed on the top of the well casing. DWR well completion forms for wells EX-4 through EX-7 were completed and submitted.

### **Monitoring Well Installation**

Wells MW-5A/B and MW-6A/B were constructed through 8-inch diameter hollow stem augers using 2-inch diameter schedule 40 PVC well casing and 5 feet of 0.02-inch diameter factory slotted well screen, situated from approximately 5 to 10 feet bgs (MW-5A and MW-6A) or 15 to 20 feet bgs (MW-5B and MW-6B). A filter pack of #3 sand was placed in the annular space around the well screen from the bottom of the borehole to approximately 1 to 2 feet above the top of the well screen. Approximately 1.5 to 2 feet of bentonite was placed on top of the filter pack and hydrated with clean water to provide a transition seal for the well. The remaining annular space in the borehole was backfilled with neat cement. A traffic rated vault box was placed over each well, and a watertight locking cap was placed on the top of the well casing. DWR well completion forms were prepared and submitted for wells MW-5A/B and MW-6A/B.

### **Well Development and Sampling**

Stratus personnel developed wells EX-4 through EX-7 on March 4, 2014, and wells MW-5A/B and MW-6A/B on May 29, 2014. The wells were developed by surging and bailing. Development continued until the evacuated groundwater appeared free of suspended sediment, or bailed dry. Field data sheets documenting well development are presented in Appendix D; the volumes of groundwater evacuated from each well during development are provided on these field data sheets.

Stratus returned to the site on June 19, 2014, to sample wells EX-4 through EX-7, MW-5A/B, and MW-6A/B, in conjunction with the second quarter 2014 groundwater monitoring and sampling event. A purge groundwater sample was collected from each well, transferred to laboratory supplied, preserved, glass vials (voas), labeled, identified on a chain-of-custody form, and stored in an ice-chilled cooler before delivery to a state-certified laboratory for chemical analysis.

### **Surveying**

Morrow Surveying, Inc. of West Sacramento, California, surveyed the elevations and locations of the newly constructed wells under the direction of a State of California professional land surveyor (P.L.S. No. 5161). Well elevations were established to the nearest 0.01 vertical feet and tied to a previous survey performed at the site. Latitudes

and longitudes of all wells were established using the Global Positioning System (GPS). California State Plane Coordinates, latitudes and longitudes of the wells, and well elevations are included on the surveyor's map presented in Appendix E. Well survey data was forwarded to the California State Water Resources Control Board for inclusion in the Geotracker database (see Appendix G for documentation).

## **Waste Management**

Soil and wastewater generated during the investigation were containerized in steel drums and stored onsite pending disposal. A sample of the soil cuttings was collected and chemically analyzed in order to determine an appropriate disposal facility for this waste material. Integrated Wastestream Management of San Jose transported the drums offsite for proper disposal. Waste disposal certificates will be forwarded to ACEHD upon request.

## **Analytical Methods**

Soil and groundwater samples were forwarded to Alpha Analytical, Inc., a California state-certified laboratory (ELAP #2019), for chemical analysis under strict chain-of-custody procedures. The samples were analyzed for GRO using USEPA Method SW8015B/SW8260B, and for BTEX and MTBE using United States Environmental Protection Agency (USEPA) Method SW8260B. Select soil samples were also analyzed for naphthalene using USEPA Method SW8260B and for polynuclear aromatic hydrocarbons (PAHs) using USEPA Method SW8270C. A summary of soil analytical results are presented in Table 2. Table 3 presents a summary of historical and current well sampling analytical data. Certified analytical reports and chain-of-custody documentation (for soil samples) are provided in Appendix F. The groundwater analytical reports will be included in a separate report (2<sup>nd</sup> Quarter 2014 Groundwater Monitoring and Sampling Report). The certified analytical reports prepared by Alpha Analytical have been uploaded to the State of California's GeoTracker database; upload confirmation documentation for these lab results are included in Appendix G.

## **FINDINGS**

### **Soil Analytical Results**

Petroleum hydrocarbons were detected in soil samples collected at each drilling location, with the highest concentrations of these fuel contaminants detected in samples collected from approximately 9 to 10 feet bgs. In the 9 to 10 foot depth samples, GRO concentrations ranged from 38 milligrams per kilogram (mg/Kg) at well boring EX-7 to 910 mg/Kg at well boring EX-4. Naphthalene was detected in the samples retained from 9 to 10 feet bgs at borings EX-4 through EX-7, at concentrations ranging from 0.7 mg/Kg (at EX-7) to 10 mg/Kg (at EX-5). Benzene concentrations in soil were relatively low, with a maximum concentration of 0.89 mg/Kg detected in a sample collected from 9 feet

bgs at boring EX-6. MTBE concentrations in soil were also low, with a maximum concentration of 0.053 mg/Kg detected in a sample collected from boring EX-7 at 9 feet bgs. Between 10 and 15 feet bgs, concentrations of petroleum hydrocarbons decline appreciably, based on available data. No GRO or BTEX were reported in the 15 or 20 foot depth samples collected during this phase of investigation. No PAHs were detected in the shallow soil samples collected from well boring EX-7, near the site's former waste oil UST.

### **Groundwater Analytical Results**

Concentrations of petroleum hydrocarbons were observed to be higher in the samples collected from the shallow screened monitoring wells (MW-5A and MW-6A) in comparison to relatively low levels of fuel contaminants observed in the extraction well samples and the deeply screened monitoring well samples (MW-5B and MW-6B). Figure 3 presents a summary of shallow screened well sampling data for the June 2014 well samples, and Figure 4 presents a summary of groundwater analytical results for samples collected from the site's extraction wells and deeper depth monitoring wells in June 2014. The screening intervals of each well are included in Table 1.

GRO and benzene were detected at concentrations of 43,000 micrograms per liter ( $\mu\text{g/L}$ ) and 3,300  $\mu\text{g/L}$ , respectively, in the MW-6A sample, and 21,000  $\mu\text{g/L}$  and 2,000  $\mu\text{g/L}$ , respectively, in the MW-5A sample. MTBE (77  $\mu\text{g/L}$ ) was also detected in the MW-6A sample. MTBE was detected in samples collected from wells MW-6B (82  $\mu\text{g/L}$ ) and MW-5B (32  $\mu\text{g/L}$ ). No BTEX were detected in the MW-5B or MW-6B samples, and GRO was only reported at well MW-6B (86  $\mu\text{g/L}$ ). Given the available data, the small purge volumes from the wells screened from 5 to 10 feet bgs (MW-5A and MW-6A) appear to be correlative with higher concentrations of GRO and BTEX detected in the groundwater samples.

In general, the extraction wells were installed in relative close proximity to existing monitoring wells, and data collected from the EX-4 through EX-7 samples are generally consistent with data from the onsite monitoring well network (see Figures 3 and 4). Data from the recent well sampling event should provide a baseline for comparison for future well sampling events, which will be completed following implementation of the DPE corrective action project.

### **DISCUSSION**

Based on data collected during this phase of investigation, and the second quarter 2014 groundwater monitoring and sampling event, the lateral extent of petroleum hydrocarbon impact to groundwater has not been fully assessed. Following completion of DPE remediation, communication with ACEHD personnel, and an evaluation of post-remediation groundwater sampling results, Stratus will make a recommendation



regarding an appropriate course of action for any remaining environmental work needed to manage the site's environmental case toward closure.

## **LIMITATIONS**

This document was prepared in general accordance with accepted standards of care that existed at the time this work was performed. No other warranty, expressed or implied, is made. Conclusions and recommendations are based on field observations and data obtained from this work and previous investigations. It should be recognized that definition and evaluation of geologic conditions is a difficult and somewhat inexact science. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface conditions present. More extensive studies may be performed to reduce uncertainties. This document is solely for the use and information of our client unless otherwise noted.

July 31, 2014

If you have any questions regarding this document, or the project in general, please contact Scott Bittinger at (530) 676-2062.

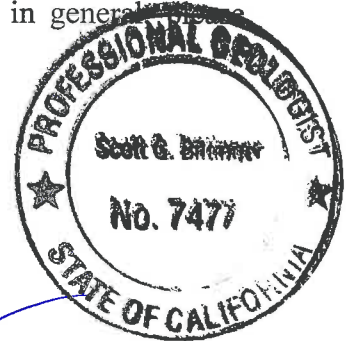
Sincerely,  
STRATUS ENVIRONMENTAL, INC.



Gowri S. Kowtha, P.E.  
Principal Engineer



Scott G. Bittinger, P.G.  
Project Manager



**ATTACHMENTS:**

- Table 1 Well Construction Detail Summary
- Table 2 Soil Analytical Results
- Table 3 Groundwater Elevation and Analytical Summary
- Figure 1 Site Location Map
- Figure 2 Site Plan
- Figure 3 Groundwater Analytical Summary, 10' Depth Monitoring Wells, Second Quarter 2014
- Figure 4 Groundwater Analytical Summary, 20' – 26' Depth Monitoring Wells, Second Quarter 2014
- Appendix A Field Practices and Procedures
- Appendix B Drilling Permits and Encroachment Permit
- Appendix C Soil Boring Logs and Well Details
- Appendix D Field Data Sheets
- Appendix E Surveyor's Map
- Appendix F Certified Analytical Reports and Chain-of-Custody Documentation
- Appendix G GeoTracker Data Upload Confirmation Sheets

cc: Mr. Philip Jaber  
Ms. Cherie McCaulou, RWQCB

**TABLE 1**  
**WELL CONSTRUCTION DETAIL SUMMARY**  
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Boring/Well I.D.	Date	Boring Depth (feet)	Boring Diameter (inches)	Well Diameter (inches)	Screen Interval (feet bgs)	Slot Size (inches)	Drilling Method	Consultant
<b><i>Groundwater Monitoring Wells</i></b>								
MW-1	09/24/99	26.5	8	2	5 - 26.5	0.020	HSA	Aqua Science Engineers
MW-2	09/24/99	20	8	2	5-20	0.020	HSA	Aqua Science Engineers
MW-3	09/24/99	21.5	8	2	5-21	0.020	HSA	Aqua Science Engineers
MW-4	02/09/10	10	10	4	5-10	0.020	Air Knife	Conestoga-Rovers & Associates
MW-5A	05/28/14	10	8	2	5-10	0.020	HSA	Stratus Environmental
MW-5B	05/28/14	20	8	2	15-20	0.020	HSA	Stratus Environmental
MW-6A	05/28/14	10	8	2	5-10	0.020	HSA	Stratus Environmental
MW-6B	05/28/14	20	8	2	15-20	0.020	HSA	Stratus Environmental
<b><i>Extraction Wells</i></b>								
EX-1	05/19/11	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-2	05/19/11	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-3	05/19/11	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-4	02/20/14	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-5	02/20/14	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-6	02/21/14	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-7	02/20/14	20	10	4	5-20	0.020	HSA	Stratus Environmental
<b><i>Injection Wells</i></b>								
IW-1	05/20/11	11.5	8	0.75	9.5-11.5	microporous	HSA	Stratus Environmental
IW-2	05/20/11	16	8	0.75	14-16	microporous	HSA	Stratus Environmental
Notes:								
HSA = Hollow Stem Auger								
Data regarding the construction of wells MW-1 through MW-4 obtained from groundwater monitoring reports prepared by Conestoga-Rovers & Associates								

**TABLE 2**  
**SOIL ANALYTICAL RESULTS**  
Former Olympic Gas Service Station  
1436 Grant Avenue, San Lorenzo, California

Sample ID	Sample Depth (feet bgs)	Date Collected	GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	Naphthalene (mg/Kg)	PAH's (mg/Kg)
<b><u>Boring EX-4</u></b>										
EX-4-4	4	2/20/2014	12	<0.005	<0.005	<0.005	<0.005	<0.005	<0.04	NA
EX-4-4	4	2/20/2014	12	<0.005	<0.005	<0.005	<0.005	<0.005	2.3	NA
EX-4-9	9	2/20/2014	910	0.13	<0.1*	<0.1*	<0.1*	0.013	NA	NA
EX-4-15	15	2/20/2014	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
EX-4-20	20	2/20/2014	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
<b><u>Boring EX-5</u></b>										
EX-5-4	4	2/20/2014	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.04	NA
EX-5-4	4	2/20/2014	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	10	NA
EX-5-9	9	2/20/2014	310	<0.25*	<0.25*	0.98	0.84	<0.25*	NA	NA
EX-5-15	15	2/20/2014	<1.0	<0.005	<0.005	<0.005	<0.005	0.019	NA	NA
EX-5-20	20	2/20/2014	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
<b><u>Boring EX-6</u></b>										
EX-6-4	4	2/21/2014	4.1	<0.01**	<0.01**	<0.01**	<0.01**	<0.01**	<0.08**	NA
EX-6-4	4	2/21/2014	4.1	<0.01**	<0.01**	<0.01**	<0.01**	<0.01**	7.3	NA
EX-6-9	9	2/21/2014	220	0.89	<0.2*	4.1	<0.2*	<0.2*	NA	NA
EX-6-15	15	2/21/2014	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
EX-6-20	20	2/21/2014	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
<b><u>Boring EX-7</u></b>										
EX-7-4	4	2/20/2014	<2.0**	<0.01**	<0.01**	<0.01**	<0.01**	<0.01**	<0.08**	ND
EX-7-4	4	2/20/2014	<2.0**	<0.01**	<0.01**	<0.01**	<0.01**	<0.01**	0.7	ND
EX-7-9	9	2/20/2014	38	0.094	0.067	0.11	0.32	0.053	NA	NA
EX-7-15	15	2/20/2014	<1.0	<0.005	<0.005	<0.005	<0.005	0.0078	NA	NA
EX-7-20	20	2/20/2014	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
<b><u>Boring MW-5B</u></b>										
MW-5B-5	5	5/28/2014	4.9	<0.005	<0.005	<0.005	0.0073	<0.005	NA	NA
MW-5B-5	5	5/28/2014	4.9	<0.005	<0.005	<0.005	0.0073	<0.005	NA	NA
MW-5B-10	10	5/28/2014	360	<0.1*	<0.1*	1.6	2.39	<0.1*	NA	NA
MW-5B-15	15	5/28/2014	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
MW-5B-20	20	5/28/2014	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA

**TABLE 2**  
**SOIL ANALYTICAL RESULTS**  
Former Olympic Gas Service Station  
1436 Grant Avenue, San Lorenzo, California

Sample ID	Sample Depth (feet bgs)	Date Collected	GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	Naphthalene (mg/Kg)	PAH's (mg/Kg)
<b><u>Boring MW-6B</u></b>										
MW-6B-5	5	5/28/2014	4.3	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
MW-6B-10	10	5/28/2014	110	0.098	<0.05*	1.0	1.59	<0.05*	NA	NA
MW-6B-15	15	5/28/2014	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
MW-6B-20	20	5/28/2014	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
<b><u>Explanation</u></b>						<b><u>Analytical Methods</u></b>				
GRO = Gasoline range organics						GRO analyzed using EPA Method SW8015B/SW8260B				
BTEX = Benzene, toluene, ethylbenzene, and xylenes						BTEX, MTBE, and naphthalene analyzed using EPA Method SW8260B				
MTBE = Methyl tertiary butyl ether						PAH's analyzed using EPA Method SW8270C				
PAH's = Polynuclear aromatic hydrocarbons (includes analysis for 54 compounds, see lab report for list)						<b><u>Analytical Laboratory</u></b>				
NA = Not analyzed						Alpha Analytical, Inc. (ELAP #2019)				
ND = Not detected, at various reporting limits										
bgs = below ground surface										
mg/Kg = milligrams per kilogram										
* = Reporting limits increased due to high concentrations of target analytes										
** = Reporting limits increased due to sample foaming										

**TABLE 3**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
MW-1	10/06/99	8.35	15.00	6.65	--	--	84**	3,900*	<25	<25	<25	<25	3,500	--	--	--	--	--	--	--
	01/13/00	7.90		7.10	--	--	<50	<1,300	18	<13	<13	<13	1,700	--	--	--	--	--	--	--
	04/12/00	7.08		7.92	--	--	56***	<1,000	66	<10	<10	<10	1,600	--	--	--	--	--	--	--
	07/19/00	7.66		7.34	--	--	52**	<1,000	<10	<10	<10	<10	1,200	--	--	--	--	--	--	--
	10/25/00	7.91		7.09	--	--	76***	4,100*	120	<25	<25	<25	6,100	--	--	--	--	--	--	--
	02/16/07	6.32		8.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/01/07	5.88		9.12	--	<250	<50	<50	<1.2	<1.2	<1.2	<1.2	78	<1.2	<1.2	<1.2	<12	<120	<1.2	<1.2
	05/01/07	7.24	15.71	8.47	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	250	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0
	08/01/07	7.77		7.94	--	--	<50	<50	<25	<25	<25	<25	520	<25	<25	<25	<250	<2,500	<25	<25
	11/01/07	7.71		8.00	--	--	<50	<50	<12	<12	<12	<12	460	<12	<12	<12	<120	<1,200	<12	<12
	02/01/08	5.71		10.00	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	110	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5
	05/02/08	7.52		8.19	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	240	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0
	08/01/08	8.02		7.69	--	--	<50	<50	<10	<10	<10	<10	500	<10	<10	<10	<40	<1,000	<10	<10
	11/04/08	7.28		8.43	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	260	<5.0	<5.0	<5.0	26	<500	<5.0	<5.0
	08/11/09	8.08		7.63	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	270	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0
	02/03/10	6.14		9.57	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	39	--	--	--	--	--	--	--
	05/18/10	7.09		8.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/05/10	7.65		8.06	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	350	--	--	--	--	--	--	--
	02/04/11	7.20		8.51	--	--	--	<50	0.90	<0.5	<0.5	<0.5	62	--	--	--	--	--	--	--
	06/03/11	7.28	18.60	11.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/02/11	7.47		11.13	--	--	--	120	<0.50	<0.50	<0.50	<0.50	160	--	--	--	--	--	--	--
	09/29/11	7.83		10.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/11	7.03		11.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/09/11	7.55		11.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/11	7.81		10.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/12	6.45		12.15	--	--	--	55	<0.50	<0.50	<0.50	<0.50	71	--	--	--	--	--	--	--
	08/28/12	7.81		10.79	--	--	--	120	<0.50	<0.50	<0.50	<0.50	240	--	--	--	--	--	--	--
	02/27/13	7.32		11.28	--	--	--	61	<0.50	<0.50	<0.50	<0.50	69	--	--	--	--	--	--	--
	08/26/13	8.05		10.55	--	--	--	470	<0.50	<0.50	<0.50	<0.50	590	--	--	--	--	--	--	--
	06/19/14	7.86		10.74	--	--	--	190	<0.50	<0.50	<0.50	<0.50	230	--	--	--	--	--	--	--

**TABLE 3**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Groundwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	
MW-2	10/06/99	7.87	14.46	6.59	<1,000	500[3]	<50	70*	<0.5	<0.5	<0.5	<0.5	11	--	--	--	--	--	--	--	
	01/13/00	7.46		7.00	<1,000	500[3]	<50	<50	<0.5	<0.5	<0.5	<0.5	6.2	--	--	--	--	--	--	--	
	04/12/00	6.67		7.79	1,100	<500	<50	<50	<0.5	<0.5	<0.5	<0.5	39	--	--	--	--	--	--	--	
	07/19/00	7.23		7.23	1,300	<500	<50	<1,000	<10	<10	<10	<10	990	--	--	--	--	--	--	--	
	10/25/00	7.52		6.94	--	<500	<50	370	<2.5	<2.5	<2.5	<2.5	690	--	--	--	--	--	--	--	
	02/16/07	5.89		8.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/01/07	5.45		9.01	--	<250	<50	<50	<0.5	<0.5	<0.5	<0.5	9.8	<0.5	<0.5	<0.5	<5.0	<50	<0.5	<0.5	
	05/01/07	6.83	15.17	8.34	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	120	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	
	08/01/07	7.35		7.82	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	130	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	
	11/01/07	7.27		7.90	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	19	<0.5	<0.5	<0.5	<5.0	<50	<0.5	<0.5	
	02/01/08	5.25		9.92	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	3.3	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	
	05/02/08	7.12		8.05	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	83	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	
	08/01/08	7.59		7.58	--	--	<50	<50	<1.0	<1.0	<1.0	<1.0	52	<1.0	<1.0	<1.0	<4.0	<100	<1.0	<1.0	
	11/04/08	6.84		8.33	--	--	80	<50	<0.5	<0.5	<0.5	<0.5	5.9	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	
	08/11/09	7.65		7.52	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	9.4	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	
	02/03/10	5.75		9.42	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.86	--	--	--	--	--	--	--	
	05/18/10	6.67		8.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	08/05/10	7.25		7.92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	57	--	--	--	--	--	--	--	
	02/04/11	6.79		8.38	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	4.4	--	--	--	--	--	--	--	
	06/03/11	6.82	18.00	11.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	08/02/11	7.06		10.94	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	46	--	--	--	--	--	--	--	
	09/29/11	7.39		10.61	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	41	<1.0	<1.0	<1.0	<10	--	--	<1.0	
	10/12/11	6.62		11.38	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	37	<1.0	<1.0	<1.0	<10	--	--	<1.0	
	11/09/11	7.11		10.89	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	33	<1.0	<1.0	<1.0	<10	--	--	<1.0	
	12/12/11	7.35		10.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	03/15/12	5.98		12.02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	4.3	--	--	--	--	--	--	--	
	08/28/12	7.39		10.61	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	35	--	--	--	--	--	--	--	
	02/27/13	6.91		11.09	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	12	--	--	--	--	--	--	--	
08/26/13	7.61		10.39	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	6.2	--	--	--	--	--	--	--		
06/19/14	7.43		10.57	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	13	--	--	--	--	--	--	--		

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Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
MW-3	10/06/99	7.90	14.41	6.51	--	--	300**	3,900	900	89	160	560	790	--	--	--	--	--	--	--
	01/13/00	7.50		6.91	--	--	210**	740	110	4.8	35	18	290	--	--	--	--	--	--	--
	04/12/00	6.61		7.80	--	--	640***	2,200	650	9.7	180	24	140	--	--	--	--	--	--	--
	07/19/00	7.24		7.17	--	--	270**	2,700*	420	<2.5	160	<2.5	99	--	--	--	--	--	--	--
	10/25/00	7.52		6.89	--	--	150	710*	180	<2.5	24	<2.5	71	--	--	--	--	--	--	--
	02/16/07	5.90		8.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/01/07	5.44		8.97	--	<250	<50	82	20	<1.7	<1.7	<1.7	100	<1.7	<1.7	<1.7	<17	<170	<1.7	<1.7
	05/01/07	6.87	15.13	8.26	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	88	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0
	08/01/07	7.40		7.73	--	--	<50	130	12	<2.5	<2.5	<2.5	98	<2.5	<2.5	<2.5	<25	<250	<2.5	<2.5
	11/01/07	7.35		7.78	--	--	<50	77	<2.5	<2.5	<2.5	<2.5	68	<2.5	<2.5	<2.5	<25	<250	<2.5	<2.5
	02/01/08	5.28		9.85	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	97	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5
	05/02/08	7.15		7.98	--	--	<50	68	2.3	<1.7	<1.7	<1.7	86	<1.7	<1.7	<1.7	7.2	<170	<1.7	<1.7
	08/01/08	7.66		7.47	--	--	<50	85	3.5	<1.0	<1.0	<1.0	66	<1.0	<1.0	<1.0	7.2	<100	<1.0	<1.0
	11/04/08	6.96		8.17	--	--	<50	<50	<1.0	<1.0	<1.0	<1.0	40	<1.0	<1.0	<1.0	<4.0	<100	<1.0	<1.0
	08/11/09	7.72		7.41	--	--	<50	110	33	<0.50	<0.50	<0.50	28	<0.50	<0.50	<0.50	<2.0	<50	<0.50	<0.50
	02/03/10	5.72		9.41	--	--	--	<50	0.55	<0.50	<0.50	<0.50	25	--	--	--	--	--	--	--
	05/18/10	6.73		8.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/05/10	7.31		7.82	--	--	--	450	110	2.2	0.76	0.64	32	--	--	--	--	--	--	--
	02/04/11	6.80		8.33	--	--	--	220[1]	64	1.6	<0.5	<0.5	36	--	--	--	--	--	--	--
	06/03/11	6.87	17.95	11.08	--	--	--	200	26	<0.50	<0.50	<0.50	34	--	--	--	--	--	--	--
	08/02/11	7.07		10.88	--	--	--	<50	2.5	<0.50	<0.50	<0.50	36	--	--	--	--	--	--	--
	09/29/11	7.43		10.52	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	28	<1.0	<1.0	<1.0	<10	--	--	<1.0
	10/12/11	6.67		11.28	--	--	--	<50	0.91	<0.50	<0.50	<0.50	32	<1.0	<1.0	<1.0	<10	--	--	<1.0
	11/09/11	7.16		10.79	--	--	--	<50	1.8	<0.50	<0.50	<0.50	31	<1.0	<1.0	<1.0	<10	--	--	<1.0
	12/12/11	7.42		10.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/12	6.21		11.74	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	24	--	--	--	--	--	--	--
	08/28/12	7.44		10.51	--	--	--	<50	6.5	<0.50	<0.50	<0.50	24	--	--	--	--	--	--	--
	02/27/13	6.90		11.05	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	18	--	--	--	--	--	--	--
	08/26/13	7.72		10.23	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	34	--	--	--	--	--	--	--
	06/19/14	7.50		10.45	--	--	--	<50	2.3	<0.50	<0.50	<0.50	16	--	--	--	--	--	--	--



**TABLE 3**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

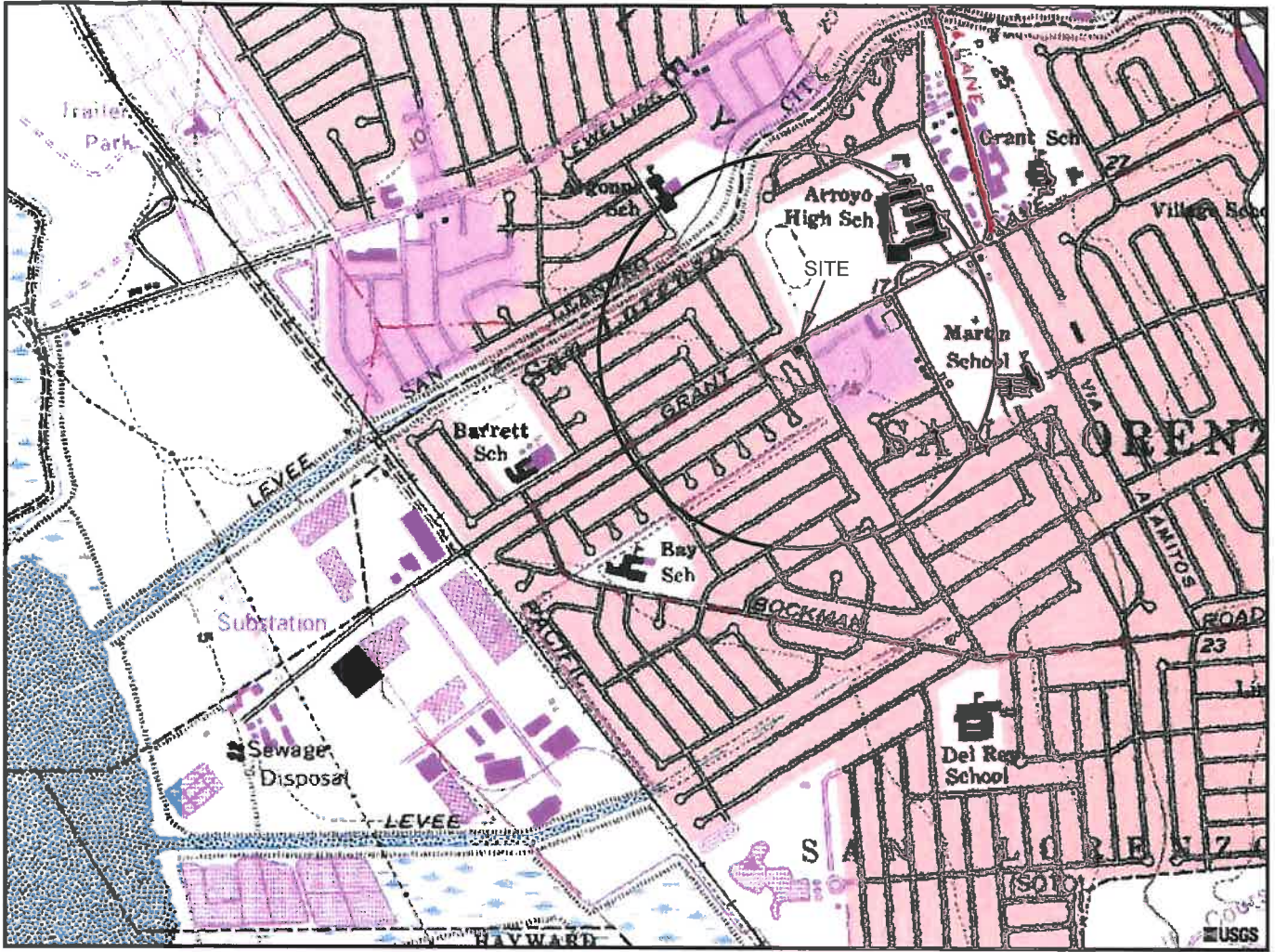
Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Groundwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
MW-4	05/18/10	6.68	15.15	8.47	--	--	--	13,000	620	36	170	12	1,200	--	--	--	--	--	--	--
	08/05/10	7.25		7.90	--	--	--	9,200	780	13	230	4.3	1,800	--	--	--	--	--	--	--
	02/04/11	6.71		8.44	--	--	--	4,800[1]	350	7.1	23	<2.5	440	--	--	--	--	--	--	--
	06/03/11	6.78	17.99	11.21	--	--	--	4,700	350	2.6	19	<2.5[2]	670	--	--	--	--	--	--	--
	08/02/11	7.01		10.98	--	--	--	4,700	290	<2.5[2]	12	<2.5[2]	970	--	--	--	--	--	--	--
	09/29/11	7.37		10.62	--	--	--	8,700	590	<5.0[2]	34	<5.0[2]	1,500	<10[2]	28	<10[2]	<100[2]	--	--	<10[2]
	10/12/11	6.61		11.38	--	--	--	1,500	160	<1.0[2]	1.8	<1.0[2]	1,300	<2.0[2]	8.6	<2.0[2]	42	--	--	<2.0[2]
	11/09/11	7.18		10.81	--	--	--	2,800	190	1.4	9.6	1.3	720	<2.0[2]	3.6	<2.0[2]	270	--	--	<2.0[2]
	12/12/11	7.36		10.63	--	--	--	3,800	300	2.4	11	2.5	1,200	--	--	--	--	--	--	--
	03/15/12	6.15		11.84	--	--	--	8,300	530	<5.0[2]	120	72	3,700	--	--	--	--	--	--	--
	08/28/12	7.40		10.59	--	--	--	2,400	250	<4.0[2]	14	<4.0[2]	1,400	--	--	--	--	--	--	--
	02/27/13	6.85		11.14	--	--	--	2,400	160	2.5	8.2	<2.0[2]	1,400	--	--	--	--	--	--	--
	08/26/13	7.69		10.30	--	--	--	4,900	220	<2.5[2]	5.7	<2.5[2]	2,400	--	--	--	--	--	--	--
	06/19/14	7.48		10.51	--	--	--	6,000	260	<4.0[2]	8.8	<4.0[2]	1,600	--	--	--	--	--	--	--
MW-5A	06/19/14	7.53	17.94	10.41	--	--	--	21,000	2,000	<25[2]	1,400	650	<25[2]	--	--	--	--	--	--	--
MW-5B	06/19/14	7.52	17.92	10.40	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	32	--	--	--	--	--	--	--
MW-6A	06/19/14	7.66	18.05	10.39	--	--	--	43,000	3,300	<50[2]	2,000	3,100	77	--	--	--	--	--	--	--
MW-6B	06/19/14	7.32	17.69	10.37	--	--	--	86	<0.50	<0.50	<0.50	<0.50	82	--	--	--	--	--	--	--

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**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Groundwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	
EX-1	06/03/11	6.96	18.14	11.18	--	--	--	76	8.3	<0.50	<0.50	0.99	37	--	--	--	--	--	--	--	
	08/02/11	7.20		10.94	--	--	--	420	37	0.65	3.5	2.9	32	--	--	--	--	--	--	--	--
	09/29/11	7.53		10.61	--	--	--	150	13	<0.50	3.2	1.1	23	<1.0	1.2	<1.0	<10	--	--	<1.0	
	10/12/11	6.63		11.51	--	--	--	180	23	0.51	2.8	0.97	27	<1.0	1.0	<1.0	<10	--	--	<1.0	
	11/09/11	7.28		10.86	--	--	--	<50	4.3	<0.50	<0.50	<0.50	34	<1.0	<1.0	<1.0	<10	--	--	<1.0	
	12/12/11	7.50		10.64	--	--	--	520	32	1.3	13	5.58	20	--	--	--	--	--	--	--	
	03/15/12	6.19		11.95	--	--	--	<50	2.6	<0.50	<0.50	<0.50	8.4	--	--	--	--	--	--	--	
	08/28/12	7.53		10.61	--	--	--	410	88	1.2	36	1.4	42	--	--	--	--	--	--	--	
	02/27/13	7.02		11.12	--	--	--	<50	0.75	<0.50	<0.50	<0.50	14	--	--	--	--	--	--	--	
	08/26/13	NM		NM							Well Covered by Car - No Sample Collected										
06/19/14	7.59	10.55	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	19	--	--	--	--	--	--	--	--		
EX-2	06/03/11	6.81	18.14	11.33	--	--	--	760	<1.5[2]	<1.5[2]	<1.5[2]	<1.5[2]	1,100	--	--	--	--	--	--	--	
	08/02/11	7.03		11.11	--	--	--	920	8.7	<1.0[2]	<1.0[2]	<1.0[2]	920	--	--	--	--	--	--	--	
	09/29/11	7.37		10.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	10/12/11	6.65		11.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/09/11	7.08		11.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/12/11	7.35		10.79	--	--	--	590	5.6	<1.0[2]	<1.0[2]	<1.0[2]	920	--	--	--	--	--	--	--	
	03/15/12	6.58		11.56	--	--	--	100	<0.50	<0.50	<0.50	<0.50	130	--	--	--	--	--	--	--	
	08/28/12	7.35		10.79	--	--	--	<300[2]	2.5	<1.5[2]	<1.5[2]	<1.5[2]	540	--	--	--	--	--	--	--	
	02/27/13	6.82		11.32	--	--	--	320	0.51	<0.50	<0.50	<0.50	420	--	--	--	--	--	--	--	
	08/26/13	7.56		10.58	--	--	--	270	<0.50	<0.50	<0.50	<0.50	340	--	--	--	--	--	--	--	
06/19/14	7.37	10.77	--	--	--	150	<0.50	<0.50	<0.50	<0.50	170	--	--	--	--	--	--	--			
EX-3	06/03/11	6.55	17.63	11.08	--	--	--	95	0.93	<0.50	<0.50	<0.50	78	--	--	--	--	--	--		
	08/02/11	6.82		10.81	--	--	--	130	1.5	<0.50	<0.50	<0.50	150	--	--	--	--	--	--		
	09/29/11	7.15		10.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	10/12/11	6.37		11.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	11/19/11	6.89		10.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	12/12/11	7.12		10.51	--	--	--	100	2.4	<0.50	<0.50	<0.50	84	--	--	--	--	--	--		
	03/15/12	5.70		11.93	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	30	--	--	--	--	--	--		
	08/28/12	7.15		10.48	--	--	--	100	<0.50	<0.50	<0.50	<0.50	190	--	--	--	--	--	--		
	02/27/13	6.63		11.00	--	--	--	84	<0.50	<0.50	<0.50	<0.50	93	--	--	--	--	--	--		
	08/26/13	7.41		10.22	--	--	--	120	<0.50	<0.50	<0.50	<0.50	120	--	--	--	--	--	--		
06/19/14	7.20	10.43	--	--	--	96	<0.50	<0.50	<0.50	<0.50	110	--	--	--	--	--	--				
EX-4	06/19/14	7.64	18.30	10.66	--	--	--	210	9.5	<0.50	0.55	0.74	10	--	--	--	--	--	--		
EX-5	06/19/14	7.84	18.41	10.57	--	--	--	110	6.0	<0.50	<0.50	<0.50	14	--	--	--	--	--	--		
EX-6	06/19/14	7.81	18.29	10.48	--	--	--	190	25	<0.50	5.9	<0.50	18	--	--	--	--	--	--		
EX-7	06/19/14	7.44	18.06	10.62	--	--	--	56	0.79	<0.50	<0.50	<0.50	50	--	--	--	--	--	--		

**TABLE 3**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

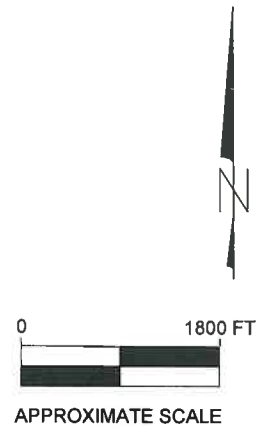
Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	
<b>Legend/Key:</b>																					
ft msl = feet above mean sea level		TPH - mo = total petroleum hydrocarbons as motor oil		MTBE - methyl tertiary butyl ether		TAME = tert amyl methyl ether		<b>Analytical Methods:</b>													
µg/L = micrograms per liter		TPHd = total petroleum hydrocarbons as diesel		DIPE = di isopropyl ether		TBA = tert butyl ether		GRO analyzed by EPA Method SW8015B/SW8260B, all other analytes analyzed by SW8260B.													
NM = Not measured		GRO = gasoline range organics C6-C12		ETBE = ethyl tertiary butyl ether		EDB = 1,2-dibromoethane		Analytical methods prior to February 2011, are available in various reports on the Alameda County Environmental Health Department files.													
																				Analytical data for samples collected prior to 2011 are obtained from documents available in the Alameda County Environmental Health Department files.	
																				Well elevations and locations surveyed by Morrow Surveying on June 15, 2011. Monitoring wells MW-5A/B, MW-6A/B, and extraction wells EX-4 through EX-7 surveyed by Morrow Surveying on June 2, 2014.	
<p>* = Hydrocarbon reported in the gasoline range does not match the gasoline standard.</p> <p>** = Hydrocarbon reported is in the early diesel range and does not match the diesel standard.</p> <p>*** = Hydrocarbon reported does not match the pattern of the diesel standard.</p> <p>-- = No sample collected</p> <p>[1] Weakly modified or unmodified gasoline is significant.</p> <p>[2] = Reporting limits were increased due to high concentrations of target analytes.</p> <p>[3] = Sample also analyzed for halogenated volatile organic compounds (EPA Method 8010) and semivolatile organic compounds (EPA Method 8270A); all analytes reported as non-detect.</p>																					



GENERAL NOTES:  
 BASE MAP FROM U.S.G.S.  
 SAN LORENZO, CA.  
 7.5 MINUTE TOPOGRAPHIC  
 PHOTOREVISED 1978



QUADRANGLE LOCATION



APPROXIMATE SCALE

*STRATUS*  
 ENVIRONMENTAL, INC.

FORMER OLYMPIC SERVICE STATION  
 1436 GRANT AVENUE  
 SAN LORENZO, CALIFORNIA

SITE LOCATION MAP

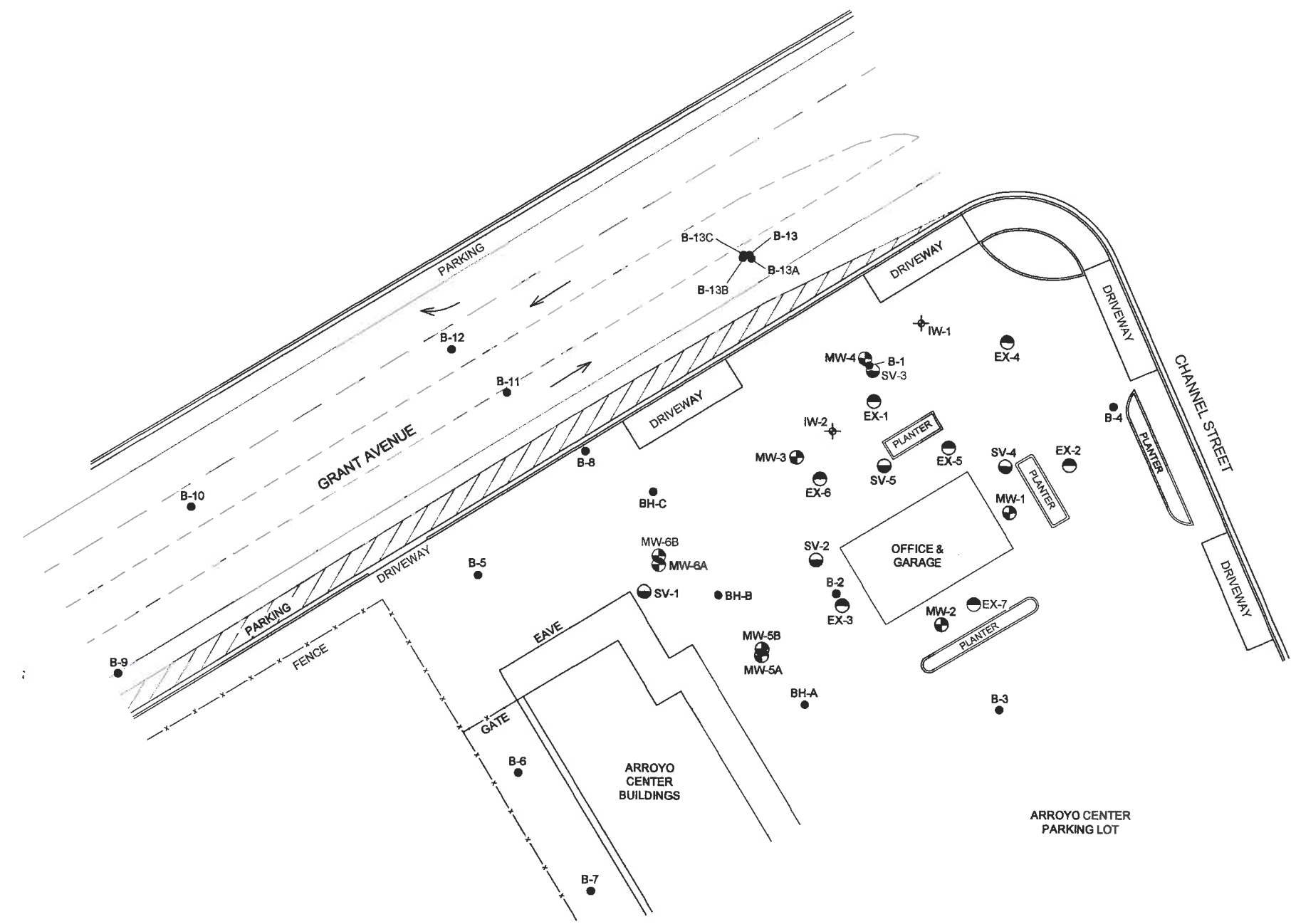
FIGURE

1

PROJECT NO.  
 2115-1436-01

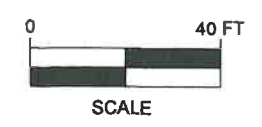


- LEGEND
- MW-1 MONITORING WELL LOCATION
  - SV-1 VAPOR EXTRACTION WELL LOCATION
  - EX-1 EXTRACTION WELL LOCATION
  - ⊕ IW-1 OZONE INJECTION WELL LOCATION
  - B-1 SOIL BORING LOCATION



**STRATUS**  
ENVIRONMENTAL, INC.

PATH NAME: Olympic  
DRAFTER INITIALS: JMP  
DATE LAST REVISED: June 3, 2014  
FILENAME: Olympic Siteplan



FORMER OLYMPIC SERVICE STATION  
1436 GRANT AVENUE  
SAN LORENZO, CALIFORNIA

SITE PLAN

FIGURE  
**2**  
PROJECT NO.  
2115-1436-01

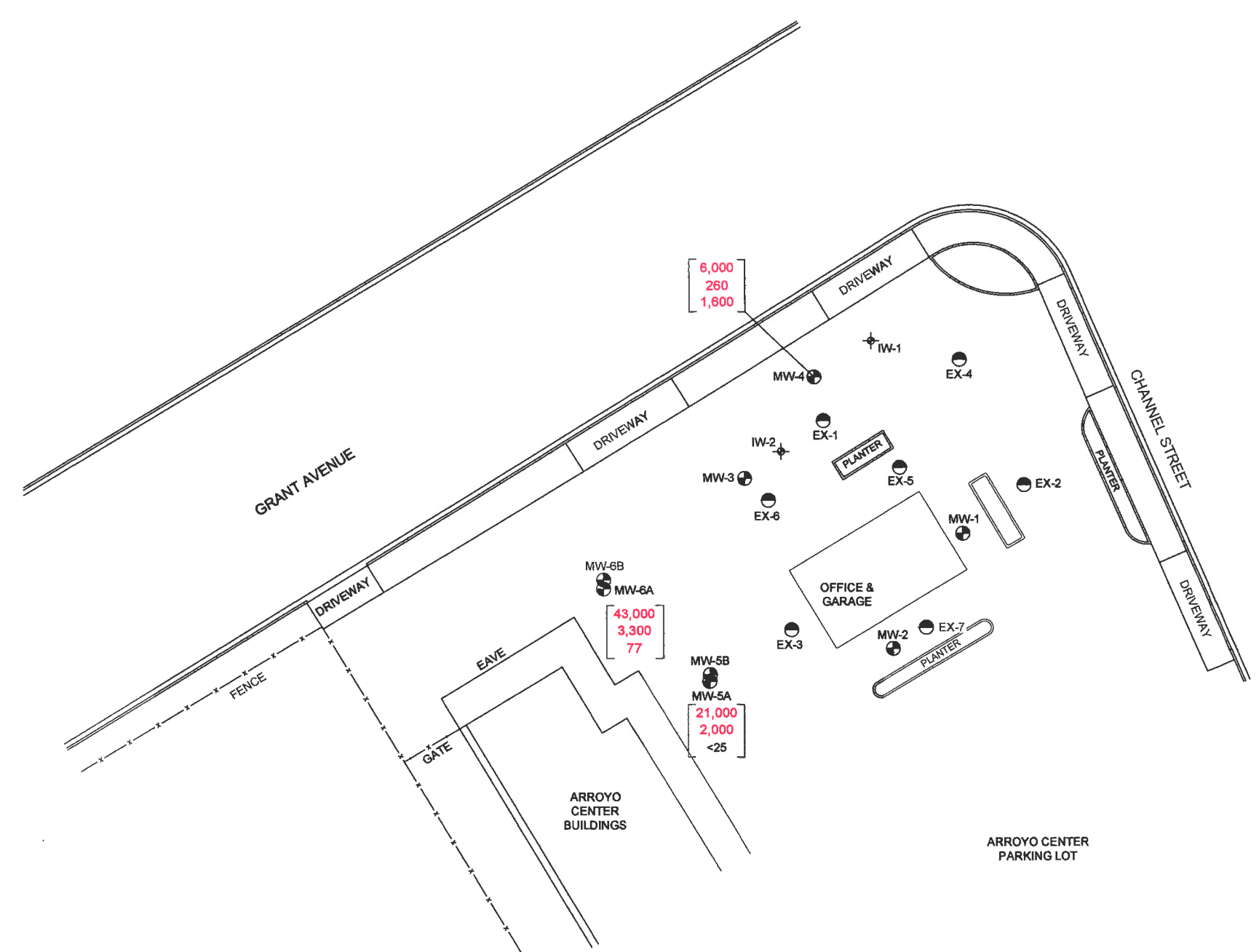


LEGEND

- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION

6,000 GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN µg/L  
260 BENZENE CONCENTRATION IN µg/L  
1,600 METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L

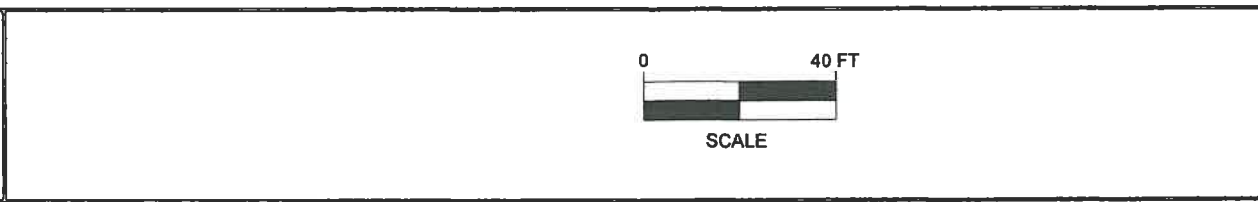
WELLS SAMPLED ON 6/19/14  
GRO ANALYZED BY EPA METHOD SW8015B/SW8260B  
MTBE & BENZENE ANALYZED BY EPA METHOD SW8260B



BASED ON SURVEY PREPARED BY MORROW SURVEYING 6/15/11



PATH NAME: OlympicQuarterly  
DRAFTER INITIALS: JMP  
DATE LAST REVISED: July 15, 2014  
FILENAME: Olympic Quarterly Figures



FORMER OLYMPIC SERVICE STATION  
1436 GRANT AVENUE  
SAN LORENZO, CALIFORNIA  
GROUNDWATER ANALYTICAL SUMMARY  
10' DEPTH MONITORING WELLS  
2nd QUARTER 2014

FIGURE  
**3**  
PROJECT NO.  
2115-1436-01

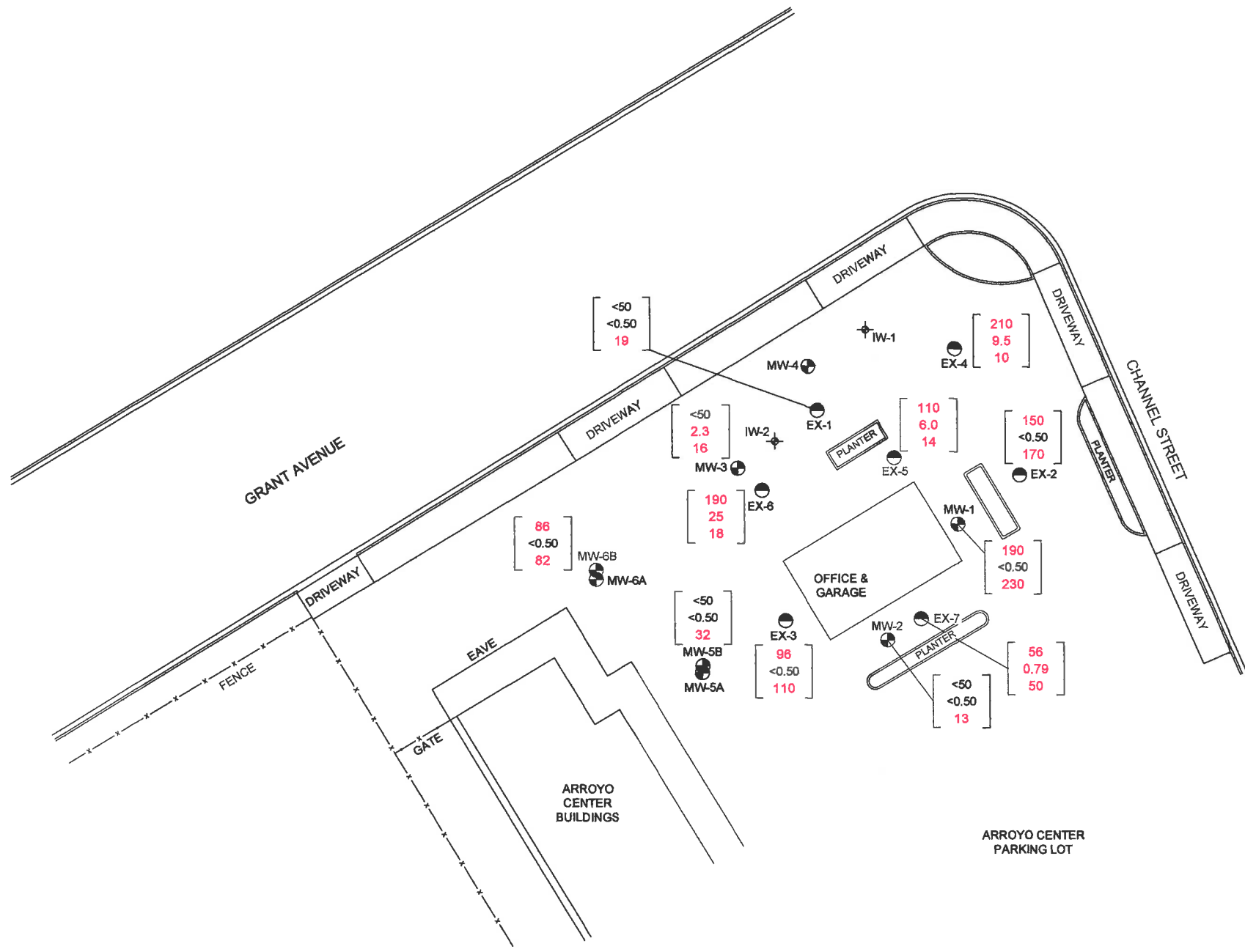


LEGEND

- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION

190 GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN  $\mu\text{g/L}$   
<0.50 BENZENE CONCENTRATION IN  $\mu\text{g/L}$   
230 METHYL TERTIARY BUTYL ETHER (MTBE) IN  $\mu\text{g/L}$

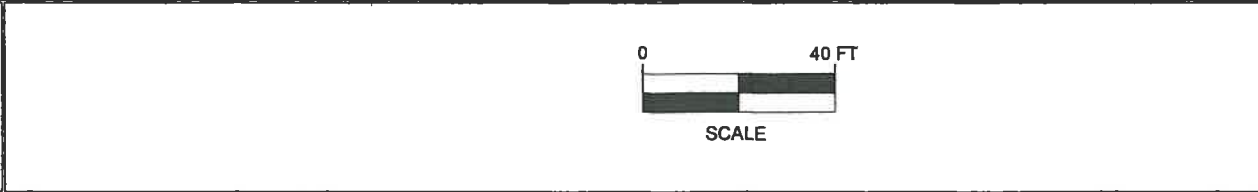
WELLS SAMPLED ON 6/19/14  
 GRO ANALYZED BY EPA METHOD SW8015B/SW8260B  
 MTBE & BENZENE ANALYZED BY EPA METHOD SW8260B



BASED ON SURVEY PREPARED BY MORROW SURVEYING 8/15/11



PATH NAME: OlympicQuarterly  
 DRAFTER INITIALS: JMP  
 DATE LAST REVISED: July 15, 2014  
 FILENAME: Olympic Quarterly Figures



FORMER OLYMPIC SERVICE STATION  
 1436 GRANT AVENUE  
 SAN LORENZO, CALIFORNIA  
 GROUNDWATER ANALYTICAL SUMMARY  
 20' - 26' DEPTH MONITORING WELLS  
 2nd QUARTER 2014

FIGURE  
**4**  
 PROJECT NO.  
 2115-1436-01

**APPENDIX A**  
**FIELD PRACTICES AND PROCEDURES**



## **FIELD PRACTICES AND PROCEDURES**

---

General procedures used by Stratus in site assessments for drilling exploratory borings, collecting samples, and installing monitoring wells are described herein. These general procedures are used to provide consistent and reproducible results; however, some procedure may be modified based on site conditions. A California state-registered geologist supervises the following procedures.

### **PRE-FIELD WORK ACTIVITIES**

#### **Health and Safety Plan**

Field work performed by Stratus at the site is conducted according to guidelines established in a Site Health and Safety Plan (SHSP). The SHSP is a document which describes the hazards that may be encountered in the field and specifies protective equipment, work procedures, and emergency information. A copy of the SHSP is at the site and available for reference by appropriate parties during work at the site.

#### **Locating Underground Utilities**

Prior to commencement of any work that is to be below surface grade, the location of the excavation, boring, etc., is marked with white paint as required by law. An underground locating service such as Underground Service Alert (USA) is contacted. The locating company contacts the owners of the various utilities in the vicinity of the site to mark the locations of their underground utilities. Any invasive work is preceded by hand augering to a minimum depth of five feet below surface grade to avoid contact with underground utilities.

### **FIELD METHODS AND PROCEDURES**

#### **Exploratory Soil Borings**

Soil borings will be drilled using a truck-mounted, hollow stem auger drill rig. Soil samples for logging will be obtained from auger-return materials and by advancing a modified California split-spoon sampler equipped with brass or stainless steel liners into undisturbed soil beyond the tip of the auger. Soils will be logged by a geologist according to the Unified Soil Classification System and standard geological techniques. Drill cuttings will be screened using a portable photoionization detector (PID) or a flame ionization detector (FID). Exploratory soil borings not used for monitoring well installation will be backfilled to the surface with a bentonite-cement slurry pumped into the boring through a tremie pipe.

Soil sampling equipment will be cleaned with a detergent water solution, rinsed with clean water, and equipped with clean liners between sampling intervals. Augers and

samplers will be steam cleaned between each boring to reduce the possibility of cross contamination. Steam cleaning effluent will be contained in 55-gallon drums and temporarily stored on site. The disposal of the effluent will be the responsibility of the client.

Drill cuttings generated during the drilling procedure will be stockpiled on site. Stockpiled drill cuttings will be placed on and covered with plastic sheeting. The stockpiled soil is typically characterized by collecting and analyzing composite samples from the stockpile. Stratus Environmental will recommend an appropriate method for disposition of the cuttings based on the analytical results. The client will be responsible for disposal of the drill cuttings.

### **Soil Sample Collection**

During drilling, soil samples will be collected in cleaned brass, two by six inch tubes. The tubes will be set in an 18-inch-long split-barrel sampler. The sampler will be conveyed to bottom of the borehole attached to a wire-line hammer device on the drill rig. When possible, the split-barrel sampler will be driven its entire length, either hydraulically or by repeated pounding a 140-pound hammer using a 30-inch drop. The number of drops (blows) used to drive the sampler will be recorded on the boring log. The sampler will be extracted from the borehole, and the tubes containing the soil samples will be removed. Upon removal, the ends of the lowermost tube will be sealed with Teflon sheets and plastic caps. Soil samples for chemical analysis will be labeled, placed on ice, and delivered to a state-certified analytical laboratory, along with the appropriate chain-of-custody documentation.

### **Soil Classification**

As the samples are obtained in the field, they will be classified by the field geologist in accordance with the Unified Soil Classification System. Representative portions of the samples will be retained for further examination and for verification of the field classification. Logs of the borings indicating the depth and identification of the various strata and pertinent information regarding the method of maintaining and advancing the borehole will be prepared.

### **Soil Sample Screening**

Soil samples selected for chemical analysis will be determined from a head-space analysis using a PID or an FID. The soil will be placed in a Ziploc<sup>®</sup> bag, sealed, and allowed to reach ambient temperature, at which time the PID probe will be inserted into the Ziploc<sup>®</sup> bag. The total volatile hydrocarbons present are detected by the PID and reported in parts per million by volume (ppmv). The PID will be calibrated to an isobutylene standard.

Generally two soil samples from each soil boring will be submitted for chemical analysis unless otherwise specified in the scope of work. Soil samples selected for analysis typically represent the highest PID reading recorded for each soil boring and the sample just above first-encountered groundwater.

### **Stockpiled Drill Cuttings and Soil Sampling**

Soil generated during drilling operations will be stockpiled on-site. The stockpile will be set on and covered by plastic sheeting in a manner to prevent rain water from coming in contact with the soil. Prior to collecting soil samples, Stratus personnel will calculate the approximate volume of soil in the stockpile. The stockpile will then be divided into sections, if warranted, containing the predetermined volume sampling interval. Soil samples will be collected at 0.5 to 2 feet below the surface of the stockpile. Four soil samples will be collected from the stockpile and composited into one sample by the laboratory prior to analysis. The soil samples will be collected in cleaned brass, two by six inch tubes using a hand driven sampling device. To reduce the potential for cross-contamination between samples, the sampler will be cleaned between each sampling event. Upon recovery, the sample container will be sealed at each end with Teflon sheeting and plastic caps to minimize the potential of volatilization and cross-contamination prior to chemical analysis. The soil sample will be labeled, placed on ice, and delivered to a state-certified analytical laboratory, along with the appropriate chain-of-custody documentation.

### **Direct Push Technology, Soil Sampling**

GeoProbe™ is a drilling method of advancing small diameter borings without generating soil cuttings. The GeoProbe™ system consists of a 2-inch diameter, 5-foot long, stainless steel soil sampling tool that is hydraulically advanced into subsurface soils by a small, truck-mounted rig. The sampling tool is designed similar to a California-modified split-spoon sampler, and lined with a 5-foot long, clear acrylic sample tube that enables continuous core sampling.

To collect soil samples, the sampler is advanced to the desired sampling depth. The mouth of the sampling tool is plugged to prevent soil from entering the sampler. Upon reaching the desired sampling depth, the plug at the mouth of the sample tool is disengaged and retracted, the sampler is advanced, and the sampler is filled with soil. The sample tool is then retrieved from the boring, and the acrylic sample tube removed. The sample tool is then cleaned, a new acrylic tube is placed inside and the sampling equipment is advanced back down the borehole to the next sample interval.

The Stratus geologist describes the entire interval of soil visible in the acrylic tube. The bottom-most 6-inch long section is cut off and retained for possible chemical analysis. The ends of the chemical sample are lined with Teflon™ sheets, capped, labeled, and placed in an ice-chilled cooler for transport to California Department of Health Services-certified analytical laboratory under chain-of-custody.

## **Direct Push Technology, Water Sampling**

A well known example of direct push technology for water sampling is the Hydropunch<sup>®</sup>. For the purpose of this field method the term hydropunch will be used instead of direct push technology for water sampling.

The hydropunch is typically used with a drill rig. A boring is drilled with hollow stem-augers to just above the sampling zone. In some soil conditions the drill rig can push directly from the surface to the sampling interval. The hydropunch is conveyed to the bottom of the boring using drill rods. Once on bottom the hydropunch is driven a maximum of five feet. The tool is then opened by lifting up the drill rod no more than four feet. Once the tool is opened, water enters and a sample can be collected with a bailer or tubing utilizing a peristaltic pump. Soil particles larger than silt are prevented from entering the tool by a screen within the tool. The water sample is collected, labeled, and handled according to the Quality Assurance Plan.

## **Monitoring Well Installation**

Monitoring wells will be completed by installing 2 to 6 inch-diameter Schedule 40 polyvinyl chloride (PVC) casing. The borehole diameter for a monitoring well will be a minimum of four inches larger than the outside diameter of the casing. The 2-inch-diameter flush-threaded casing is generally used for wells dedicated for groundwater monitoring purposes.

A monitoring well is typically cased with threaded, factory-perforated and blank Schedule 40 PVC. The perforated interval consists of slotted casing, generally with 0.01 or 0.02 inch-wide by 1.5-inch-long slots, with 42 slots per foot. The screened sections of casing are factory machine slotted and will be installed approximately 5 feet above and 10 feet below first-encountered water level. The screened interval will allow for seasonal fluctuation in water level and for monitoring floating product. A threaded or slip PVC cap is secured to the bottom of the casing. The slip cap can be secured with stainless steel screws or friction; no solvents or cements are used. Centering devices may be fastened to the casing to ensure even distribution of filter material and grout within the borehole annulus. The well casing is thoroughly washed and/or steam cleaned, or may be purchased as pre-cleaned, prior to completion.

A filter pack of graded sand will be placed in the annular space between the PVC casing and the borehole wall. Sand will be added to the borehole through the hollow stem of the augers to provide a uniform filter pack around the casing and to stabilize the borehole. The sand pack will be placed to a maximum of 2 feet above the screens, followed by a minimum 1-foot seal consisting of bentonite pellets.

Cement grout containing 5 percent bentonite or concrete will be placed above the bentonite seal to the ground surface. A concrete traffic-rated vault box will be installed over the monitoring well(s). A watertight locking cap will be installed over the top of the

well casing. Reference elevations for each monitoring well will be surveyed when more than two wells will be located on site. Monitoring well elevations will be surveyed by a California licensed surveyor to the nearest 0.01-foot relative to mean sea level (MSL). Horizontal coordinates of the wells will be measured at the same time.

Exploratory boring logs and well construction details will be prepared for the final written report.

## **APPENDIX B**

### **DRILLING PERMITS AND ENCROACHMENT PERMIT**

# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 02/06/2014 By jamesy

Permit Numbers: W2014-0124  
Permits Valid from 03/03/2014 to 03/07/2014

Application Id:	1391559992890	City of Project Site:	San Lorenzo
Site Location:	1436 Grant Ave, San Lorenzo, CA	Completion Date:	03/07/2014
Project Start Date:	03/03/2014		
Assigned Inspector:	Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org		

Applicant:	Stratus - Scott Bittinger 3330 Cameron Park Dr, Ste 550, Cameron Park, CA 95682	Phone:	530-676-2062
Property Owner:	Jaber Family Trust 2801 Encinal Ave, Alameda, CA 94501	Phone:	510-523-4929
Client:	** same as Property Owner **		

	<b>Total Due:</b>	\$265.00	
<b>Receipt Number: WR2014-0044</b>	<b>Total Amount Paid:</b>	\$265.00	
<b>Payer Name : Stratus</b>	Paid By: CHECK	<u>PAID IN FULL</u>	

**Works Requesting Permits:**

Remediation Well Construction-Extraction - 4 Wells  
Driller: Penecore - Lic #: 906899 - Method: CA

**Work Total: \$265.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2014-0124	02/06/2014	06/01/2014	EX4	10.00 in.	4.00 in.	4.00 ft	20.00 ft
W2014-0124	02/06/2014	06/01/2014	EX5	10.00 in.	4.00 in.	4.00 ft	20.00 ft
W2014-0124	02/06/2014	06/01/2014	EX6	10.00 in.	4.00 in.	4.00 ft	20.00 ft
W2014-0124	02/06/2014	06/01/2014	EX7	10.00 in.	4.00 in.	4.00 ft	20.00 ft

**Specific Work Permit Conditions**

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
  
2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
  
3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

## **Alameda County Public Works Agency - Water Resources Well Permit**

4. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to [stevem@acpwa.org](mailto:stevem@acpwa.org) at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
  5. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
  6. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).
  7. Minimum surface seal thickness is two inches of cement grout placed by tremie.
-



# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

**Application Approved on: 05/08/2014 By jamesy**

**Permit Numbers: W2014-0460 to W2014-0465**  
**Permits Valid from 05/28/2014 to 05/30/2014**

**Application Id:** 1399313771054  
**Site Location:** 1436 Grant Avenue  
**Project Start Date:** 05/28/2014  
**Assigned Inspector:** Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

**City of Project Site:** San Lorenzo  
**Completion Date:** 05/30/2014

**Applicant:** STRATUS - Scott Bittinger  
3330 Cameron Park #550, Cameron Park, CA 95682  
**Phone:** 530-676-2062

**Property Owner:** Phil Jaber Jabery Family Tr  
2801 Encinal Avenue, Alameda, CA 94501  
**Phone:** 510-523-4929

**Client:** \*\* same as Property Owner \*\*

	<b>Total Due:</b>	\$2382.00
<b>Receipt Number: WR2014-0181</b>	<b>Total Amount Paid:</b>	\$2382.00
<b>Payer Name : Stratus</b>	<b>Paid By: CHECK</b>	<b>PAID IN FULL</b>

**Works Requesting Permits:**

Well Construction-Monitoring-Monitoring - 6 Wells  
Driller: PeneCore - Lic #: 906899 - Method: hstem

**Work Total: \$2382.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2014-0460	05/08/2014	08/26/2014	MW5A	8.00 in.	2.00 in.	3.00 ft	10.00 ft
W2014-0461	05/08/2014	08/26/2014	MW5B	8.00 in.	2.00 in.	12.00 ft	20.00 ft
W2014-0462	05/08/2014	08/26/2014	MW6A	8.00 in.	2.00 in.	3.00 ft	10.00 ft
W2014-0463	05/08/2014	08/26/2014	MW6B	8.00 in.	2.00 in.	12.00 ft	20.00 ft
W2014-0464	05/08/2014	08/26/2014	MW7A	8.00 in.	2.00 in.	3.00 ft	10.00 ft
W2014-0465	05/08/2014	08/26/2014	MW7B	8.00 in.	2.00 in.	12.00 ft	20.00 ft

**Specific Work Permit Conditions**

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
  
2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
  
3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits

## Alameda County Public Works Agency - Water Resources Well Permit

and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.
  5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
  6. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to [stevem@acpwa.org](mailto:stevem@acpwa.org) at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
  7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
  8. Minimum surface seal thickness is two inches of cement grout placed by tremie.
  9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
-

Work Order Number:\* **80001**  
 This WO is  / is not  open for charges.

Permit Number: **R14 LD 13269**  
 Permit Issuance Date: **5-7-14**  
 Permit Expiration Date: **OPEN**

**COUNTY OF ALAMEDA PUBLIC WORKS AGENCY  
 ROADWAY ENCROACHMENT PERMIT**

This Permit is issued in accordance with Chapter 12.08 of the Alameda County General Ordinance Code

**Name & Address of Property Owner:**  
 Mr. Phillip Jaber/Jaber Family Trust  
 2801 Encinal Avenue  
 Alameda, CA 94501  
**Phone Number:**  
**Name & Address of Contractor:**  
 Panecore Drilling, Inc.  
 220 North East Street  
 Woodland, CA 95776  
**Phone Number:** **530 6613600**

**Job Site Address:**  
 1436 Grant Avenue  
 San Lorenzo  
 (This statement to be completed by the Agency)  
 This permit is issued to the owner  / contractor .  
 If "owner" is checked, he/she is  is not  exempt  
 from the requirement that work in the roadway be  
 performed by a licensed contractor.

*Also send copy to Stratus Environmental, Inc., working on behalf of the Jabers*

The Applicant intends to perform the following work scope:

**Install two groundwater monitoring wells (in one general area) in a left turn lane of Grant Avenue (note, Alameda County Health Dept. rejected installing them in sidewalk north of Grant Avenue)**

**Licensed Contractor Declaration:**  
 I hereby affirm, under penalty of perjury, that I hold the following contractor's license, which is in full force and effect, under the applicable provisions of the State Business and Professions Code.  
 License Class and No. **906899**  
 Contractor's Signature: *[Signature]*

**Worker's Compensation Insurance Declaration:**  
 I hereby affirm, under penalty of perjury, that I will, during the performance of any and all work authorized by this permit, satisfy the requirements of the State Labor Code with regard to Worker's Compensation Insurance, as declared below:  
 I will maintain a certificate of consent to self-insure.  
 I will maintain the following insurance policy:  
 Carrier Name and Policy No.: **WNN 5084029 - Westco**  
 I will not employ any person in any manner so as to become subject to the worker's compensation laws of the State.  
 Owner's/Contractor's Signature: *[Signature]*

**THIS PERMIT DOES NOT AUTHORIZE THE CLOSURE OR BLOCKAGE OF ANY ROADWAY TRAVEL LANE, EXCEPT DURING THE HOURS OF 9:00 AM THROUGH 3:30 PM ON NON-HOLIDAY WEEKDAYS.**  
 All work and/or access shall be performed in accordance with the requirements of Chapter 12.08 and, unless otherwise specified below, shall be fully compliant with each of the terms and conditions of the attached General Provisions:

**CALL THIS NUMBER FOR INSPECTIONS: 510 670 6632**

**RETURN BOND TO STRATUS ENVIRONMENTAL AFTER REMOVAL OF MONITORING WELLS**

**Bond Information:**  
**\$3000** **KEEP BOND Until Per. Closure**  
 BY: *[Signature]* Alameda County  
 I certify that the information that I have entered into this permit application is correct, and I agree to comply with all of the terms and conditions and other requirements of the issued Permit.  
 Signature of Applicant \_\_\_\_\_ Date \_\_\_\_\_

Insp. Fee  or Deposit : **\$99**  
**\$225**  
 Work Completed (Date): \_\_\_\_\_  
 Inspector: \_\_\_\_\_

**THIS PERMIT IS INCOMPLETE WITHOUT THE ATTACHED GENERAL PROVISIONS**

## **APPENDIX C**

### **SOIL BORING LOGS AND WELL DETAILS**

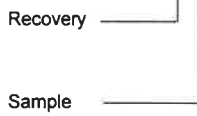
**SOIL BORING LOG**

**Boring No. EX-4**

**Sheet: 1 of 1**

Client	Olympic Gas	Date	February 20, 2014
Address	1436 Grant Avenue San Lorenzo, CA	Drilling Co.	Penecore Drilling Rig Type: Geoprobe 7822D7
Project No.	2115-1436-01	Driller	Norman Dewberry
Logged By:	Carl Schulze	Method	Direct Push/Hollow Stem Auger Hole Diameter: 10 in.
		Sampler:	5 ft. clear PVC liner beginning at 5 ft bgs
Well Pack	grout: 0 ft. to 2.5 ft. bent.: 2.5 ft. to 3.5 ft. sand: 3.5 ft. to 20 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 5 ft. to 20 ft. Casing Diameter: 4 in. Screen Slot Size: 0.020 in. Depth to GW: ▽ first encountered: 19 ft. bgs ▼ static: 7.49 ft. btoc (measured 02/21)

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
							2" asphalt, 3" fill material		
							CLAYEY SAND 5"-1.5', dark greenish gray (GLEY 1, 4/1) 70% very fine/fine sand, 30% clay		
S	EX-4-4	N/A	0815	N/A			CLAY with SILT 1.5'-14', greenish black (GLEY 1, 2.5/1) 95% clay, 5% silt, soft/medium stiff, medium plasticity	N/A	
							increasing stiffness		
S	EX-4-9	N/A	0831	85%			CLAY mottled, greenish black (GLEY 1, 2.5/1), olive brown (2.5Y, 4/4)	97.9	
							increasing silt content		
							some coarse sand		
S	EX-4-15	N/A	0849	100%			SILTY CLAY 14'-15.5', olive brown (2.5Y, 4/4) 70% clay, 30% silt, stiff, low/medium plasticity	1.5	
							SANDY SILTY CLAY 15.5'-18.5', light yellowish brown (2.5Y, 6/4) 50% clay, 30% silt, 20% very fine sand, some medium/coarse sand		
							CLAYEY SAND 18.5'-20', light olive brown (2.5Y, 4/4) 85% very fine/fine sand, 15% clay, very soft, wet at 19'		
S	EX-4-20	N/A	0857	100%				0	



Comments: Color descriptions from Munsell color chart.  
Sampled using direct push then drilled to 20.5 ft bgs. Set well at 20 ft bgs.  
4 ft sample (EX-4-4) collected using hand auger.



**SOIL BORING LOG**

**Boring No. EX-5**

**Sheet: 1 of 2**

Client	<u>Olympic Gas</u>	Date	<u>February 20, 2014</u>
Address	<u>1436 Grant Avenue</u> <u>San Lorenzo, CA</u>	Drilling Co.	<u>Penecore Drilling</u> Rig Type: <u>Geoprobe 7822D7</u>
Project No.	<u>2115-1436-01</u>	Driller	<u>Norman Dewberry</u>
Logged By:	<u>Carl Schulze</u>	Method	<u>Direct Push/Hollow Stem Auger</u> Hole Diameter: <u>10 in.</u>
Well Pack	<u>grout: 0 ft. to 2.5 ft</u> <u>bent.: 2.5 ft. to 3.5 ft.</u> <u>sand: 3.5 ft. to 20 ft.</u>	Sampler:	<u>5 ft clear PVC liner beginning at 5 ft bgs</u>
Well Construction	Casing Material: <u>Schedule 40 PVC</u>	Screen Interval:	<u>5 ft. to 20 ft.</u>
	Casing Diameter: <u>4 in.</u>	Screen Slot Size:	<u>0.020 in.</u>
Depth to GW:	▽ <u>first encountered: 19.5 ft. bgs</u>	▼ <u>static: 7.31 ft. btoc (measured 02/21)</u>	

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1	6" concrete		
						2	ML SANDY SILT 0.5'-3.5', olive brown (2.5Y, 4/4) 65% silt, 35% fine sand, medium dense		
					3				
					4				
S	EX-5-4	N/A	1052	N/A		5	CL SILTY CLAY 3.5'-5.5', mottled, greenish black (GLEYS 1, 2.5/1), olive brown (2.5Y, 4/4), 80% clay, 20% silt, medium plasticity, medium stiff	1	
					6				
						7	CL SILTY CLAY 5.5'-8', black (5Y, 2.5/1) 80% clay, 20% silt, low/medium plasticity, medium stiff		
					8				
						9	ML increasing silt content CLAYEY SILT 8'-10.2', black (2.5/1, 5Y) 70% silt, 30% clay, medium plasticity, soft/medium stiff	87.3	
S	EX-5-9	N/A	1106	100%		10			
						11	CL SILTY CLAY 10.2'-15', dark greenish gray (GLEYS 1, 4/1) 75% clay, 25% silt, some coarse sand, low plasticity, medium stiff		
					12				
					13				
					14	increasing silt content			
S	EX-5-15	N/A	1125	100%		15	ML CLAYEY SILT 15'-18.5', light yellowish brown (2.5Y, 6/4) 70% silt, 30% clay, some medium/coarse sand low plasticity, medium stiff/stiff	N/A	
					16				
					17				
						18	SC CLAYEY SAND 18.5'-20', light olive brown (2.5Y, 4/4) 85% very fine/fine sand, 15% clay, soft, wet at 19.5'		
					19				
					20				

Recovery \_\_\_\_\_  
Sample \_\_\_\_\_

Comments: Color descriptions from Munsell color chart.  
Sampled using direct push then drilled to 20.5 ft bgs. Set well at 20 ft bgs.  
4 ft sample (EX-5-4) collected using hand auger.





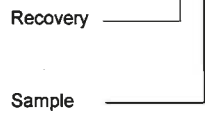
**SOIL BORING LOG**

**Boring No. EX-6**

**Sheet: 1 of 2**

Client	Olympic Gas	Date	February 21, 2014
Address	1436 Grant Avenue San Lorenzo, CA	Drilling Co.	Penecore Drilling Rig Type: Geoprobe 7822D7
Project No.	2115-1436-01	Driller	Norman Dewberry
Logged By:	Carl Schulze	Method	Direct Push/Hollow Stem Auger Hole Diameter: 10 in.
		Sampler:	5 ft clear PVC liner beginning at 5 ft bgs
Well Pack	grout: 0 ft. to 2.5 ft bent.: 2.5 ft. to 3.5 ft. sand: 3.5 ft. to 20 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 5 ft. to 20 ft. Casing Diameter: 4 in. Screen Slot Size: 0.020 in. Depth to GW: ▽ first encountered: 19 ft. bgs ▼ static: not measured

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1	ML	3" asphalt	
						2		fill, SANDY SILT with GRAVEL	
						3		SANDY SILT with CLAY 1'-2.5', dark olive gray (5Y, 3/2)	
						4	CL	65% silt, 30% very fine sand, 5% clay	
S	EX-6-4	N/A	0747	N/A		5		SILTY CLAY 2.5'-4.3', dark olive gray (5Y, 3/2)	4.9
						6		80% clay, 20% silt, soft, medium plasticity	
						7	CL	CLAY with SILT 4.3'-12', greenish black (GLEYS 1, 2.5/1)	
						8		90% clay, 10% silt, soft/medium stiff, medium plasticity	
						9			
S	EX-6-9	N/A	0751	85%		10		mottled 10'-12', greenish black (GLEYS 1, 2.5/1), olive brown (2.5Y, 4/4)	139
						11	CL		
						12			
						13		SILTY CLAY 12'-14', olive brown (2.5Y, 4/4)	
						14		80% clay, 20% silt, soft/medium stiff, medium plasticity	
						15		CLAYEY SILT 14'-18.5', light olive brown (2.5Y, 4/4)	
S	EX-6-15	N/A	0805	100%		16	ML	55% silt, 45% clay, medium stiff, low/medium plasticity	1.4
						17			
						18		some coarse sand	
						19	▽ SC	CLAYEY SAND 18.5'-21', light olive brown (2.5Y, 4/4)	
						20		60% very fine/fine sand, 40% clay, soft	
								increasing sand content	



Comments: Color descriptions from Munsell color chart.  
 Sampled using direct push then drilled to 20.5 ft bgs. Set well at 20 ft bgs  
 4 ft sample (EX-6-4) collected using hand auger.





**SOIL BORING LOG**

**Boring No. EX-6**

**Sheet: 2 of 2**

Client	<u>Olympic Gas</u>	Date	<u>February 21, 2014</u>
Address	<u>1436 Grant Avenue</u>	Drilling Co.	<u>Penecore Drilling</u> Rig Type: <u>Geoprobe 7822D7</u>
	<u>San Lorenzo, CA</u>	Driller	<u>Norman Dewberry</u>
Project No.	<u>2115-1436-01</u>	Method	<u>Direct Push/Hollow Stem Auger</u> Hole Diameter: <u>10 inches</u>
Logged By:	<u>Carl Schulze</u>	Sampler:	<u>5 ft clear PVC liner beginning at 5 ft bgs</u>

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
S	EX-6-20	N/A	0814	100%		21	SC	CLAYEY SAND, 75% very fine/fine sand, 25% clay	0
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			
						31			
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

Comments:

**SOIL BORING LOG**

**Boring No. EX-7**

**Sheet: 1 of 2**

Client	<u>Olympic Gas</u>	Date	<u>February 20, 2014</u>
Address	<u>1436 Grant Avenue</u> <u>San Lorenzo, CA</u>	Drilling Co.	<u>Penecore Drilling</u> Rig Type: <u>Geoprobe 7822D7</u>
Project No.	<u>2115-1436-01</u>	Driller	<u>Norman Dewberry</u>
Logged By:	<u>Carl Schulze</u>	Method	<u>Direct Push/Hollow Stem Auger</u> Hole Diameter: <u>10 in.</u>
		Sampler:	<u>5 ft clear PVC liner beginning at 5 ft bgs</u>
Well Pack	<u>grout: 0 ft. to 2.5 ft</u> <u>bent.: 2.5 ft. to 3.5 ft.</u> <u>sand: 3.5 ft. to 20 ft.</u>	Well Construction	Casing Material: <u>Schedule 40 PVC</u> Screen Interval: <u>5 ft. to 20 ft.</u> Casing Diameter: <u>4 in.</u> Screen Slot Size: <u>0.020 in.</u>
		Depth to GW:	<u>▽ first encountered: 19 ft. bgs</u> <u>▼ static: 6.99 ft. btoc (measured 02/21)</u>

Sample Type	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
	No.	Blow Count					
				1	ML	3" asphalt	
				2	SM	SANDY SILT 0.5'-1.5', olive brown (2.5Y, 4/4) 60% silt, 40% fine/medium sand, medium dense	
				3		SILTY SAND 1.5'-3', dark yellow brown (10YR, 3/6) 70% fine/medium/coarse sand, 30% silt, medium dense	
				4	CL	SILTY CLAY 3'-8', black (5Y, 2.5/1) 70% clay, 30% silt, medium stiff, low plasticity	0.9
S	EX-7-4	N/A	1400	100%			
				5	▼		
				6			
				7	ML	CLAYEY SILT 8'-10', black (5Y, 2.5/1) 70% silt, 30% clay, soft/medium stiff, medium plasticity	72.2
S	EX-7-9	N/A	1418	85%			
				8	CL	SILTY CLAY with SAND 10'-14.5', dark greenish gray (GLEYS 1, 4/1) 65% clay, 30% silt, 5% coarse sand, medium stiff, low plasticity	
				9			
				10	CL	transitioning to olive gray	
				11			
				12	ML	CLAYEY SILT 14.5'-19.5', light yellow brown (2.5Y, 6/4) 60% silt, 40% clay, medium stiff, low plasticity	0
S	EX-7-15	N/A	1447	100%			
				13	ML	increasing silt	
				14			
				15	▽	CLAYEY SAND 19.5'-21', light olive brown (2.5Y, 4/4) 60% very fine/fine sand, 40% clay, soft	
				16			
				17	SC	increasing sand content	
				18			
				19			
				20			

Recovery \_\_\_\_\_  
Sample \_\_\_\_\_

Comments: Color descriptions from Munsell color chart.  
Sampled using direct push then drilled to 20.5 ft bgs. Set well at 20 ft bgs.  
4ft sample (EX-7-4) collected using hand auger.



**SOIL BORING LOG**

**Boring No. EX-7**

**Sheet: 2 of 2**

Client	<u>Olympic Gas</u>	Date	<u>February 20, 2014</u>
Address	<u>1436 Grant Avenue</u>	Drilling Co.	<u>Penecore Drilling</u> Rig Type: <u>Geoprobe 7822D7</u>
	<u>San Lorenzo, CA</u>	Driller	<u>Norman Dewberry</u>
Project No.	<u>2115-1436-01</u>	Method	<u>Direct Push/Hollow Stem Auger</u> Hole Diameter: <u>10 inches</u>
Logged By:	<u>Carl Schulze</u>	Sampler:	<u>5 ft clear PVC liner beginning at 5 ft bgs</u>

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
S	EX-7-20	N/A	1455	100%		21	SC	CLAYEY SAND, 85% very fine/fine sand, 15% clay	0
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			
						31			
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

Comments:

**STRATUS**  
ENVIRONMENTAL, INC.

**SOIL BORING LOG**

**Boring No. MW-5A**

**Sheet: 1 of 1**


Client	<u>Olympic Service Station</u>	Date	<u>May 28, 2014</u>
Address	<u>1436 Grant Ave.</u>	Drilling Co.	<u>Penecore Drilling</u> rig type: <u>Geoprobe 7822DT</u>
	<u>San Lorenzo, CA</u>	Driller	<u>Carlos Morales</u>
Project No.	<u>2115-1436-01</u>	Method	<u>Hollow stem auger</u> Hole Diameter: <u>8"</u>
Logged By:	<u>Carl Schulze</u>	Sampler:	<u>No sampling</u>
Well Pack	grout: <u>0 ft. to 2.5 ft.</u>	Well Construction	Casing Material: <u>Sch. 40 PVC</u> Screen Interval: <u>5 to 10 ft.</u>
	bent.: <u>2.5 ft. to 4 ft.</u>		Casing Diameter: <u>2"</u> Screen Slot Size: <u>0.020"</u>
	sand: <u>4 ft. to 10 ft.</u>	Depth to GW:	▽ first encountered: <u>N/A</u> ▼ static: <u>N/A</u>

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						—		4" asphalt surface	
						1			
						2			
						3			
						4			
						5			
						6			
						7			
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			

Recovery \_\_\_\_\_

Sample \_\_\_\_\_

Comments: Drilled to 10 ft. bgs. Set well at 10 ft. bgs. No sampling



**STRATUS**  
ENVIRONMENTAL, INC.

**SOIL BORING LOG**

**Boring No. MW-5B**

**Sheet: 1 of 1**

Client	<u>Olympic Service Station</u>	Date	<u>May 28, 2014</u>
Address	<u>1436 Grant Ave.</u> <u>San Lorenzo, CA</u>	Drilling Co.	<u>Penecore Drilling</u> rig type: <u>Geoprobe 7822DT</u>
Project No.	<u>2115-1436-01</u>	Driller	<u>Carlos Morales</u>
Logged By:	<u>Carl Schulze</u>	Method	<u>Direct-push/Hollow stem auger</u> Hole Diameter: <u>8"</u>
Well Pack	<u>grout: 0 ft. to 12 ft.</u> <u>bent.: 12 ft. to 14 ft.</u> <u>sand: 14 ft. to 20 ft.</u>	Well Construction	<u>Casing Material: Sch. 40 PVC</u> Screen Interval: <u>15 to 20 ft.</u> <u>Casing Diameter: 2"</u> Screen Slot Size: <u>0.020"</u>
		Depth to GW:	<u>▽ first encountered: 17 ft bgs</u> <u>▼ static: N/A</u>

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
								4" asphalt surface, hand clear to 5 ft. bgs	
						1	ML	CLAYEY SILT, dark olive gray (5Y, 3/2) 75% silt, 25% clay, low plasticity	
					2				
					3				
					4				
SO	MW-5B-5		0806			5	ML	CLAYEY SILT 5'-6.4', dark olive gray (5Y, 3/2) 75% silt, 25% clay, low plasticity	11.7
					6				
						7	SM	SILTY SAND 6.4'-6.7', dark olive gray (5Y, 3/2) 80% fine/medium sand, 20% silt, medium dense	
						8	CL	SILTY CLAY 6.7'-10', dark olive gray (5Y, 3/2) 85% clay, 15% silt, low/medium plasticity, medium stiff	
					9			increasing clay content	
SO	MW-5B-10		0815			10	CL	CLAY with SILT 10'-15', greenish black (GLEYS 1, 2.5/1) 90% clay, 10% silt, medium plasticity, soft/medium stiff	110
					11			transitioning to olive brown (2.5Y, 4/4) at 12.5'	
					12				
SO	MW-5B-15		0823			15	CL	SILTY CLAY with SAND 15'-15.8', light olive brown (2.5Y, 4/4) 60% clay, 35% silt, 5% coarse sand, low plasticity	3.7
					16				
						17	▽ ML	CLAYEY SILT 15.8'-18.5', light olive brown (2.5Y, 4/4) 70% silt, 30% clay, medium plasticity, wet at 17'	
						18	ML	SANDY SILT 18.5'-20', light olive brown (2.5Y, 4/4) 65% silt, 35% very fine sand, very soft, wet	
					19				
SO	MW-5B-20		0831			20			0.9

Recovery  
Sample

Comments: Color descriptions from Munsell color chart.  
Sampled using direct-push then drilled using 8" hollow stem augers to 20ft bgs.  
Soil sample runs made from 5'-10', 10'-12.5', 12.5'-15', 15'-17.5', and 17.5'-20'.

*STRATUS*  
ENVIRONMENTAL, INC.



**SOIL BORING LOG**

**Boring No. MW-6A**

**Sheet: 1 of 1**

Client	<u>Olympic Service Station</u>	Date	<u>May 28, 2014</u>
Address	<u>1436 Grant Ave.</u>	Drilling Co.	<u>Penecore Drilling</u> rig type: <u>Geoprobe 7822DT</u>
	<u>San Lorenzo, CA</u>	Driller	<u>Carlos Morales</u>
Project No.	<u>2115-1436-01</u>	Method	<u>Hollow stem auger</u> Hole Diameter: <u>8"</u>
Logged By:	<u>Carl Schulze</u>	Sampler:	<u>No sampling</u>
Well Pack	grout: <u>0 ft. to 2.5 ft.</u>	Well Construction	Casing Material: <u>Sch. 40 PVC</u> Screen Interval: <u>5 to 10 ft.</u>
	bent.: <u>2.5 ft. to 4 ft.</u>		Casing Diameter: <u>2"</u> Screen Slot Size: <u>0.020"</u>
	sand: <u>4 ft. to 10 ft.</u>	Depth to GW:	<input checked="" type="checkbox"/> first encountered: <u>N/A</u> <input type="checkbox"/> static: <u>N/A</u>

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
								4" asphalt surface	
						1			
						2			
						3			
						4			
						5			
						6			
						7			
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			

Recovery \_\_\_\_\_  
Sample \_\_\_\_\_

Comments: Drilled to 10 ft. bgs. Set well at 10 ft. bgs. No sampling



**SOIL BORING LOG**

**Boring No. MW-6B**

**Sheet: 1 of 1**

Client	<u>Olympic Service Station</u>	Date	<u>May 28, 2014</u>
Address	<u>1436 Grant Ave.</u>	Drilling Co.	<u>Penecore Drilling</u> rig type: <u>Geoprobe 7822DT</u>
	<u>San Lorenzo, CA</u>	Driller	<u>Carlos Morales</u>
Project No.	<u>2115-1436-01</u>	Method	<u>Direct-push/Hollow stem auger</u> Hole Diameter: <u>8"</u>
Logged By:	<u>Carl Schulze</u>	Sampler:	<u>5 ft. PVC liner</u>
Well Pack	grout: 0 ft. to 12 ft.	Well Construction	Casing Material: <u>Sch. 40 PVC</u> Screen Interval: <u>15 to 20 ft.</u>
	bent.: 12 ft. to 14 ft.		Casing Diameter: <u>2"</u> Screen Slot Size: <u>0.020"</u>
	sand: 14 ft. to 20 ft.	Depth to GW:	▽ first encountered: <u>17 ft bgs</u> ▼ static: <u>N/A</u>

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1		4" asphalt surface, hand clear to 5ft bgs	
						2	ML	CLAYEY SILT, dark olive gray (5Y, 3/2) 75% silt, 25% clay, low plasticity	
					3				
					4				
					5				
SO	MW-6B-5		1114			6	CL	SILTY CLAY 5'-10', dark olive gray (5Y, 3/2) 75% clay, 25% silt, medium stiff, low/medium plasticity	13.3
					7				
					8	increasing clay content			
						9			
SO	MW-6B-10		1121			10	CL	CLAY with SILT 10'-12.3', greenish black (GLE Y 1, 2.5/1) 90% clay, 10% silt, medium plasticity, medium stiff	253
					11				
						12			
						13			
						14		SILTY CLAY 12.3'- 15', olive brown (2.5Y, 4/4) 80% clay, 20% silt, low plasticity, medium stiff	
						15			
SO	MW-6B-15		1129			16	CL	SILTY CLAY with SAND, 15'-17.5', light olive brown (2.5Y, 4/4) 65% clay, 25% silt, 10% coarse sand, low plasticity, medium stiff	2.1
					17				
						18	▽ CL	SILTY CLAY 17.5'-18.6', light olive brown (2.5Y, 4/4) 70% clay, 30% silt, medium plasticity, soft	
						19			
SO	MW-6B-20		1137			20	ML	SANDY CLAYEY SILT 18.6'-20', light olive brown (2.5Y, 4/4) 60% silt, 25% clay, 15% very fine sand, very soft	0.8

Recovery \_\_\_\_\_  
Sample \_\_\_\_\_

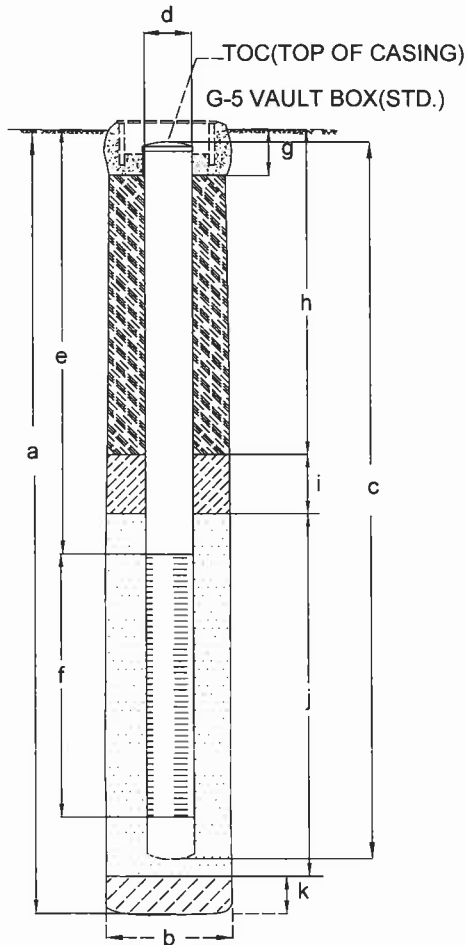
Comments: Color descriptions from Munsell color chart.  
Sampled using direct-push, then drilled using 8" hollow stem augers to 20 ft bgs.  
Soil sample runs made from 5'-10', 10'-12.5', 12.5'-15', 15'-17.5', and 17.5'-20'.








# MONITORING WELL DETAILS

PROJECT NUMBER: 2115-1436-01  
 PROJECT NAME: Former Olympic Service Station  
 LOCATION: 1436 Grant Avenue, San Lorenzo, CA  
 WELL PERMIT NO.: W2014-0460

BORING/WELL NO.: MW-5A  
 TOP OF CASING ELEV.: \_\_\_\_\_  
 GROUND SURFACE ELEV.: \_\_\_\_\_  
 DATUM \_\_\_\_\_  
 INSTALLATION DATE: May 8, 2014



- |   |   |
|---|---|
|  BENTONITE |  CONCRETE    |
|  CEMENT    |  SAND        |
|   |  PERFORATION |

NOT TO SCALE

## EXPLORATORY BORING

a. TOTAL DEPTH 10 ft.  
 b. DIAMETER 8 in.  
 DRILLING METHOD Hollow Stem Auger

## WELL CONSTRUCTION

c. TOTAL CASING LENGTH 10 ft.  
 MATERIAL Schedule 40 PVC  
 d. DIAMETER 2 in.  
 e. DEPTH TO TOP PERFORATIONS 5 ft.  
 f. PERFORATED  
 INTERVAL FROM 5 TO 10 ft.  
 PERFORATION TYPE Milled Slots  
 PERFORATION SIZE 0.02 in.  
 g. SURFACE SEAL 0 to 1 ft.  
 SEAL MATERIAL Concrete  
 h. BACKFILL 1 to 2.5 ft.  
 BACKFILL MATERIAL Neat Cement  
 i. SEAL 2.5 to 4 ft.  
 SEAL MATERIAL Bentonite Chips  
 j. FILTER PACK 4 to 10 ft.  
 FILTER PACK MATERIAL Graded Sand  
 k. BOTTOM SEAL None  
 SEAL MATERIAL \_\_\_\_\_

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_

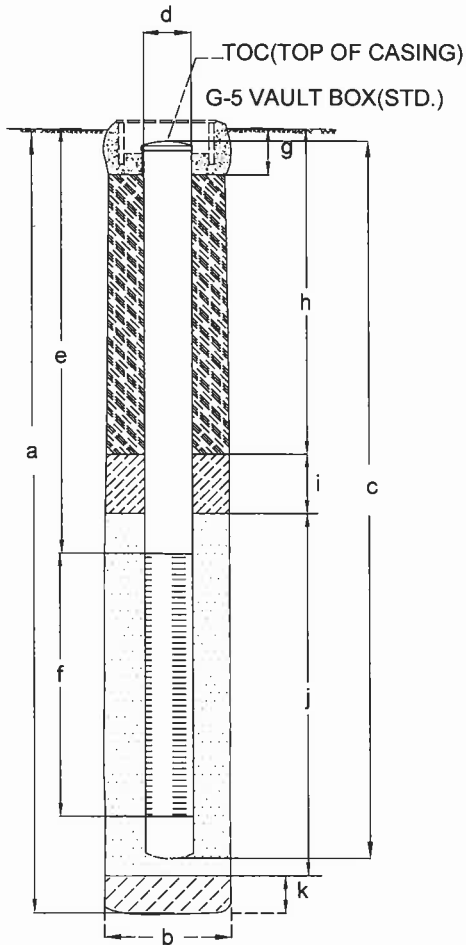
REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_






# MONITORING WELL DETAILS

PROJECT NUMBER: 2115-1436-01  
 PROJECT NAME: Former Olympic Service Station  
 LOCATION: 1436 Grant Avenue, San Lorenzo, CA  
 WELL PERMIT NO.: W2014-0462

BORING/WELL NO.: MW-6A  
 TOP OF CASING ELEV.: \_\_\_\_\_  
 GROUND SURFACE ELEV.: \_\_\_\_\_  
 DATUM \_\_\_\_\_  
 INSTALLATION DATE: May 8, 2014



- |   |           |   |             |
|---|-----------|---|-------------|
|  | BENTONITE |  | CONCRETE    |
|  | CEMENT    |  | SAND        |
|   |           |  | PERFORATION |

NOT TO SCALE

## EXPLORATORY BORING

a. TOTAL DEPTH 10 ft.  
 b. DIAMETER 8 in.  
 DRILLING METHOD Hollow Stem Auger

## WELL CONSTRUCTION

c. TOTAL CASING LENGTH 10 ft.  
 MATERIAL Schedule 40 PVC  
 d. DIAMETER 2 in.  
 e. DEPTH TO TOP PERFORATIONS 5 ft.  
 f. PERFORATED  
 INTERVAL FROM 5 TO 10 ft.  
 PERFORATION TYPE Milled Slots  
 PERFORATION SIZE 0.02 in.  
 g. SURFACE SEAL 0 to 1 ft.  
 SEAL MATERIAL Concrete  
 h. BACKFILL 1 to 2.5 ft.  
 BACKFILL MATERIAL Neat Cement  
 i. SEAL 2.5 to 4 ft.  
 SEAL MATERIAL Bentonite Chips  
 j. FILTER PACK 4 to 10 ft.  
 FILTER PACK MATERIAL Graded Sand  
 k. BOTTOM SEAL None  
 SEAL MATERIAL \_\_\_\_\_

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_

REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_

**APPENDIX D**  
**FIELD DATA SHEETS**

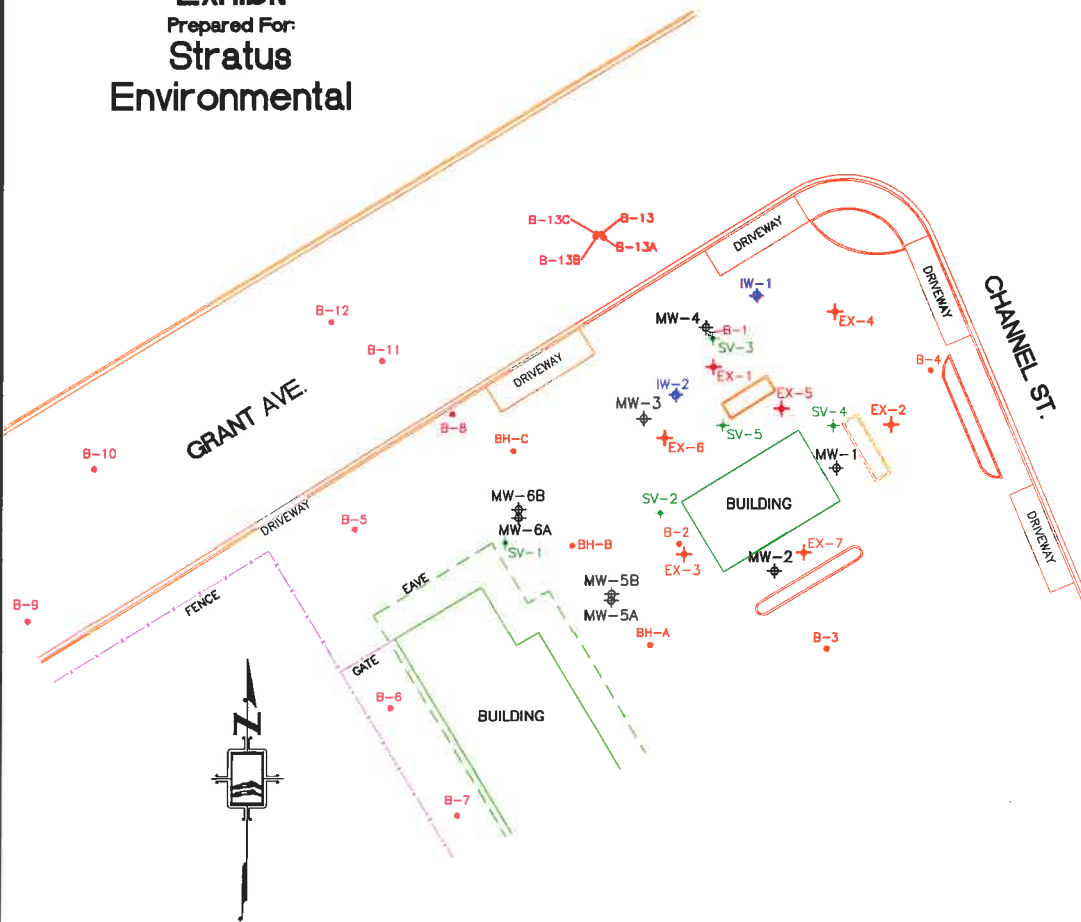




**APPENDIX E**  
**SURVEYOR'S MAP**

# Monitoring Well Exhibit

Prepared For:  
**Stratus  
Environmental**



DESC.	NORTHING	EASTING	LATITUDE	LONGITUDE	EL. PVC	EL. RIM	EL. GND
MW-1	2073110.1	6086281.0	37.6769020	-122.1427862	18.60	19.04	
MW-2	2073077.2	6086261.0	37.6768106	-122.1427932	18.00	18.43	
MW-3	2073126.0	6086218.5	37.6769427	-122.1429430	17.95	18.37	
MW-4	2073155.0	6086238.6	37.6770233	-122.1428754	17.99	18.34	
EX-1	2073142.4	6086241.1	37.6769888	-122.1428659	18.14	18.54	
EX-2	2073124.0	6086298.7	37.6769411	-122.1426660	18.14	18.53	
EX-3	2073082.6	6086231.8	37.6768243	-122.1428945	17.63	18.14	
IW-1	2073165.3	6086255.0	37.6770525	-122.1428193		18.41	
IW-2	2073133.6	6086229.1	37.6769642	-122.1429069		18.50	
SV-1	2073086.3	6086174.1	37.6768315	-122.1430940		18.34	
SV-2	2073095.9	6086224.3	37.6768603	-122.1429212		18.37	
SV-3	2073151.4	6086240.9	37.6770136	-122.1428672		18.38	
SV-4	2073123.5	6086279.8	37.6769389	-122.1427312		18.92	
SV-5	2073123.6	6086244.2	37.6769374	-122.1428541		18.79	
B-1	2073153.0	6086239.9	37.6770179	-122.1428709		18.3	18.3
B-2	2073086.0	6086230.2	37.6768335	-122.1429001		18.3	18.0
B-3	2073052.2	6086278.1	37.6767431	-122.1427329		18.1	18.1
B-4	2073141.3	6086311.4	37.6769891	-122.1426229		18.1	18.1
B-5	2073090.8	6086125.6	37.6768415	-122.1432620		18.1	18.1
B-6	2073033.1	6086137.4	37.6768936	-122.1432178		18.2	18.2
B-7	2072998.5	6086158.6	37.6765898	-122.1431422		18.4	18.4
B-8	2073127.3	6086157.0	37.6769435	-122.1431558		17.7	17.7
B-9	2073061.4	6086020.6	37.6767558	-122.1436230		17.9	17.9
B-10	2073110.2	6086041.8	37.6768909	-122.1435526		18.4	18.4
B-11	2073144.4	6086134.0	37.6769891	-122.1432360		18.7	18.7
B-12	2073156.8	6086117.8	37.6770226	-122.1432928		18.7	18.7
B-13	2073185.1	6086204.8	37.6771043	-122.1429940		18.9	18.9
B-13A	2073184.0	6086205.4	37.6771015	-122.1429919		18.8	18.8
B-13B	2073184.3	6086202.9	37.6771020	-122.1430006		18.9	18.9
B-13C	2073185.1	6086203.1	37.6771042	-122.1430000		18.9	18.9
BH-A	2073053.5	6086221.0	37.6767438	-122.1429301		18.3	18.3
BH-B	2073085.4	6086195.7	37.6768301	-122.1430193		18.2	18.2
BH-C	2073115.5	6086176.8	37.6769120	-122.1430866		18.2	18.2
WELLS SURVEYED ON 5-30-14:							
MW-5A	2073067.7	6086208.3	37.6767822	-122.1429748	17.94	18.29	
MW-5B	2073069.7	6086208.5	37.6767875	-122.1429744	17.92	18.28	
MW-6A	2073094.3	6086178.4	37.6768537	-122.1430796	18.05	18.29	
MW-6B	2073096.9	6086178.4	37.6768608	-122.1430798	17.69	18.29	
EX-4	2073160.0	6086280.3	37.6770390	-122.1427316	18.30	18.59	
EX-5	2073129.0	6086263.1	37.6769531	-122.1427891	18.41	18.77	
EX-6	2073119.7	6086225.5	37.6769257	-122.1429185	18.29	18.56	
EX-7	2073083.1	6086270.5	37.6768275	-122.1427607	18.06	18.53	

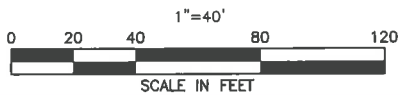
**BASIS OF COORDINATES AND ELEVATIONS:**

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING CSDS VIRTUAL SURVEY NETWORK.

COORDINATE DATUM IS NAD 83.

REFERENCE GEOID IS GEOID03.

VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.



Former Olympic Service Station  
1436 Grant Ave.  
San Lorenzo  
Alameda County  
California



1255 Starboard Drive  
West Sacramento  
California 95691  
(916) 372-8124  
mark@morrowsurveying.com

Date: June, 2011  
Field: 6-15-11, 5-30-14  
Scale: 1"=40'  
Sheet 1 of 1  
Revised: 6-2-14  
Field Book: MW-53  
Dwg. No.7502-106 MAN

## **APPENDIX F**

### **CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION**



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861  
Job: 2115-1436-01/Olympic Gas

Attn: Scott Bittinger  
Phone: (530) 676-2062  
Fax: (530) 676-6005

Alpha Analytical Number: STR14022441-13A  
Client I.D. Number: EX-7-4

Sampled: 02/21/14 14:00  
Received: 02/22/14  
Extracted: 02/27/14 12:07  
Analyzed: 03/03/14

### Semivolatile Organics by GC/MS EPA Method SW8270C

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Phenol	ND	660 µg/Kg	36 Hexachlorobenzene	ND	660 µg/Kg
2 2-Chlorophenol	ND	660 µg/Kg	37 Pentachlorophenol	ND	3,300 µg/Kg
3 Bis(2-chloroethyl)ether	ND	660 µg/Kg	38 Phenanthrene	ND	660 µg/Kg
4 1,3-Dichlorobenzene	ND	1,300 µg/Kg	39 Anthracene	ND	660 µg/Kg
5 1,4-Dichlorobenzene	ND	1,300 µg/Kg	40 Di-n-butyl phthalate	ND	3,300 µg/Kg
6 1,2-Dichlorobenzene	ND	1,300 µg/Kg	41 Fluoranthene	ND	660 µg/Kg
7 Bis(2-chloroisopropyl)ether	ND	660 µg/Kg	42 Pyrene	ND	660 µg/Kg
8 N-Nitrosodi-n-propylamine	ND	660 µg/Kg	43 Butyl benzyl phthalate	ND	1,300 µg/Kg
9 Hexachloroethane	ND	1,300 µg/Kg	44 Benzo(a)anthracene	ND	660 µg/Kg
10 Nitrobenzene	ND	660 µg/Kg	45 3,3'-Dichlorobenzidine	ND	1,300 µg/Kg
11 Isophorone	ND	660 µg/Kg	46 Chrysene	ND	660 µg/Kg
12 2-Nitrophenol	ND	660 µg/Kg	47 Bis(2-ethylhexyl)phthalate	ND	3,300 µg/Kg
13 2,4-Dimethylphenol	ND	660 µg/Kg	48 Di-n-octyl phthalate	ND	3,300 µg/Kg
14 Bis(2-chloroethoxy)methane	ND	660 µg/Kg	49 Benzo(b)fluoranthene	ND	660 µg/Kg
15 2,4-Dichlorophenol	ND	660 µg/Kg	50 Benzo(k)fluoranthene	ND	660 µg/Kg
16 1,2,4-Trichlorobenzene	ND	660 µg/Kg	51 Benzo(a)pyrene	ND	660 µg/Kg
17 Naphthalene	ND	660 µg/Kg	52 Indeno(1,2,3-cd)pyrene	ND	660 µg/Kg
18 Hexachlorobutadiene	ND	1,300 µg/Kg	53 Dibenz(a,h)anthracene	ND	660 µg/Kg
19 4-Chloro-3-methylphenol	ND	1,300 µg/Kg	54 Benzo(g,h,i)perylene	ND	660 µg/Kg
20 Hexachlorocyclopentadiene	ND	6,600 µg/Kg			
21 2,4,6-Trichlorophenol	ND	660 µg/Kg			
22 2-Chloronaphthalene	ND	660 µg/Kg			
23 Dimethyl phthalate	ND	660 µg/Kg			
24 Acenaphthylene	ND	660 µg/Kg			
25 2,6-Dinitrotoluene	ND	660 µg/Kg			
26 Acenaphthene	ND	660 µg/Kg			
27 2,4-Dinitrophenol	ND	6,600 µg/Kg			
28 4-Nitrophenol	ND	3,300 µg/Kg			
29 2,4-Dinitrotoluene	ND	660 µg/Kg			
30 Diethyl phthalate	ND	660 µg/Kg			
31 Fluorene	ND	660 µg/Kg			
32 4-Chlorophenyl phenyl ether	ND	660 µg/Kg			
33 4,6-Dinitro-2-methylphenol	ND	6,600 µg/Kg			
34 N-Nitrosodiphenylamine	ND	660 µg/Kg			
35 4-Bromophenyl phenyl ether	ND	660 µg/Kg			

Sample results were calculated on a wet weight basis.  
ND = Not Detected



*Roger Scholl*     *Randy Gardner*     *Walter Hinchman*  
Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com  
Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.  
Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



*[Signature]*  
3/3/14

Report Date

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861  
Job: 2115-1436-01/Olympic Gas

Attn: Scott Bittinger  
Phone: (530) 676-2062  
Fax: (530) 676-6005

Alpha Analytical Number: STR14022441-14A  
Client I.D. Number: EX-7-9

Sampled: 02/20/14 14:18  
Received: 02/22/14  
Extracted: 02/27/14 12:07  
Analyzed: 03/03/14

### Semivolatile Organics by GC/MS EPA Method SW8270C

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Phenol	ND	660 µg/Kg	36 Hexachlorobenzene	ND	660 µg/Kg
2 2-Chlorophenol	ND	660 µg/Kg	37 Pentachlorophenol	ND	3,300 µg/Kg
3 Bis(2-chloroethyl)ether	ND	660 µg/Kg	38 Phenanthrene	ND	660 µg/Kg
4 1,3-Dichlorobenzene	ND	1,300 µg/Kg	39 Anthracene	ND	660 µg/Kg
5 1,4-Dichlorobenzene	ND	1,300 µg/Kg	40 Di-n-butyl phthalate	ND	3,300 µg/Kg
6 1,2-Dichlorobenzene	ND	1,300 µg/Kg	41 Fluoranthene	ND	660 µg/Kg
7 Bis(2-chloroisopropyl)ether	ND	660 µg/Kg	42 Pyrene	ND	660 µg/Kg
8 N-Nitrosodi-n-propylamine	ND	660 µg/Kg	43 Butyl benzyl phthalate	ND	1,300 µg/Kg
9 Hexachloroethane	ND	1,300 µg/Kg	44 Benzo(a)anthracene	ND	660 µg/Kg
10 Nitrobenzene	ND	660 µg/Kg	45 3,3'-Dichlorobenzidine	ND	1,300 µg/Kg
11 Isophorone	ND	660 µg/Kg	46 Chrysene	ND	660 µg/Kg
12 2-Nitrophenol	ND	660 µg/Kg	47 Bis(2-ethylhexyl)phthalate	ND	3,300 µg/Kg
13 2,4-Dimethylphenol	ND	660 µg/Kg	48 Di-n-octyl phthalate	ND	3,300 µg/Kg
14 Bis(2-chloroethoxy)methane	ND	660 µg/Kg	49 Benzo(b)fluoranthene	ND	660 µg/Kg
15 2,4-Dichlorophenol	ND	660 µg/Kg	50 Benzo(k)fluoranthene	ND	660 µg/Kg
16 1,2,4-Trichlorobenzene	ND	660 µg/Kg	51 Benzo(a)pyrene	ND	660 µg/Kg
17 Naphthalene	ND	660 µg/Kg	52 Indeno(1,2,3-cd)pyrene	ND	660 µg/Kg
18 Hexachlorobutadiene	ND	1,300 µg/Kg	53 Dibenz(a,h)anthracene	ND	660 µg/Kg
19 4-Chloro-3-methylphenol	ND	1,300 µg/Kg	54 Benzo(g,h,i)perylene	ND	660 µg/Kg
20 Hexachlorocyclopentadiene	ND	6,600 µg/Kg			
21 2,4,6-Trichlorophenol	ND	660 µg/Kg			
22 2-Chloronaphthalene	ND	660 µg/Kg			
23 Dimethyl phthalate	ND	660 µg/Kg			
24 Acenaphthylene	ND	660 µg/Kg			
25 2,6-Dinitrotoluene	ND	660 µg/Kg			
26 Acenaphthene	ND	660 µg/Kg			
27 2,4-Dinitrophenol	ND	6,800 µg/Kg			
28 4-Nitrophenol	ND	3,300 µg/Kg			
29 2,4-Dinitrotoluene	ND	660 µg/Kg			
30 Diethyl phthalate	ND	660 µg/Kg			
31 Fluorene	ND	660 µg/Kg			
32 4-Chlorophenyl phenyl ether	ND	660 µg/Kg			
33 4,6-Dinitro-2-methylphenol	ND	6,800 µg/Kg			
34 N-Nitrosodiphenylamine	ND	660 µg/Kg			
35 4-Bromophenyl phenyl ether	ND	660 µg/Kg			

Sample results were calculated on a wet weight basis.  
ND = Not Detected



*Roger Scholl*     *Randy Gardner*     *Walter Hinchman*  
Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.  
Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



*AS*  
3/3/14

Report Date

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861

Attn: Scott Bittinger  
Phone: (530) 676-2062  
Fax: (530) 676-6005  
Date Received : 02/22/14

Job: 2115-1436-01/Olympic Gas

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B  
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	EX-4-4				
Lab ID :	STR14022441-01A	TPH-P (GRO)	12,000	1,000 µg/Kg	02/28/14
Date Sampled	02/20/14 08:15	Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	02/24/14
		Benzene	ND	5.0 µg/Kg	02/24/14
		Toluene	ND	5.0 µg/Kg	02/24/14
		Ethylbenzene	ND	5.0 µg/Kg	02/24/14
		m,p-Xylene	ND	5.0 µg/Kg	02/24/14
		o-Xylene	ND	5.0 µg/Kg	02/24/14
		Naphthalene	ND	40 µg/Kg	02/24/14
Client ID :	EX-4-9				
Lab ID :	STR14022441-02A	TPH-P (GRO)	910,000	20,000 µg/Kg	02/24/14
Date Sampled	02/20/14 08:31	Methyl tert-butyl ether (MTBE)	ND V	100 µg/Kg	02/24/14
		Benzene	130	100 µg/Kg	02/24/14
		Toluene	ND V	100 µg/Kg	02/24/14
		Ethylbenzene	ND V	100 µg/Kg	02/24/14
		m,p-Xylene	ND V	100 µg/Kg	02/24/14
		o-Xylene	ND V	100 µg/Kg	02/24/14
		Naphthalene	2,300	800 µg/Kg	02/24/14
Client ID :	EX-4-15				
Lab ID :	STR14022441-03A	TPH-P (GRO)	ND	1,000 µg/Kg	02/24/14
Date Sampled	02/20/14 08:49	Methyl tert-butyl ether (MTBE)	13	5.0 µg/Kg	02/24/14
		Benzene	ND	5.0 µg/Kg	02/24/14
		Toluene	ND	5.0 µg/Kg	02/24/14
		Ethylbenzene	ND	5.0 µg/Kg	02/24/14
		m,p-Xylene	ND	5.0 µg/Kg	02/24/14
		o-Xylene	ND	5.0 µg/Kg	02/24/14
Client ID :	EX-4-20				
Lab ID :	STR14022441-04A	TPH-P (GRO)	ND	1,000 µg/Kg	02/24/14
Date Sampled	02/20/14 08:57	Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	02/24/14
		Benzene	ND	5.0 µg/Kg	02/24/14
		Toluene	ND	5.0 µg/Kg	02/24/14
		Ethylbenzene	ND	5.0 µg/Kg	02/24/14
		m,p-Xylene	ND	5.0 µg/Kg	02/24/14
		o-Xylene	ND	5.0 µg/Kg	02/24/14



# Alpha Analytical, Inc.

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Client ID :	EX-5-4						
Lab ID :	STR14022441-05A	TPH-P (GRO)	ND		1,000 µg/Kg	02/24/14	02/27/14
Date Sampled	02/20/14 10:52	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	02/24/14	02/27/14
		Benzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Toluene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Ethylbenzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		m,p-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14
		o-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Naphthalene	ND		40 µg/Kg	02/24/14	02/27/14
Client ID :	EX-5-9						
Lab ID :	STR14022441-06A	TPH-P (GRO)	310,000		50,000 µg/Kg	02/24/14	02/27/14
Date Sampled	02/20/14 11:06	Methyl tert-butyl ether (MTBE)	ND	V	250 µg/Kg	02/24/14	02/27/14
		Benzene	ND	V	250 µg/Kg	02/24/14	02/27/14
		Toluene	ND	V	250 µg/Kg	02/24/14	02/27/14
		Ethylbenzene	980		250 µg/Kg	02/24/14	02/27/14
		m,p-Xylene	840		250 µg/Kg	02/24/14	02/27/14
		o-Xylene	ND	V	250 µg/Kg	02/24/14	02/27/14
		Naphthalene	10,000		2,000 µg/Kg	02/24/14	02/27/14
Client ID :	EX-5-15						
Lab ID :	STR14022441-07A	TPH-P (GRO)	ND		1,000 µg/Kg	02/24/14	02/27/14
Date Sampled	02/20/14 11:25	Methyl tert-butyl ether (MTBE)	19		5.0 µg/Kg	02/24/14	02/27/14
		Benzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Toluene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Ethylbenzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		m,p-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14
		o-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14
Client ID :	EX-5-20						
Lab ID :	STR14022441-08A	TPH-P (GRO)	ND		1,000 µg/Kg	02/24/14	02/27/14
Date Sampled	02/20/14 11:33	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	02/24/14	02/27/14
		Benzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Toluene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Ethylbenzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		m,p-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14
		o-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14
Client ID :	EX-6-4						
Lab ID :	STR14022441-09A	TPH-P (GRO)	4,100		2,000 µg/Kg	02/24/14	02/27/14
Date Sampled	02/21/14 07:47	Methyl tert-butyl ether (MTBE)	ND	O	10 µg/Kg	02/24/14	02/27/14
		Benzene	ND	O	10 µg/Kg	02/24/14	02/27/14
		Toluene	ND	O	10 µg/Kg	02/24/14	02/27/14
		Ethylbenzene	ND	O	10 µg/Kg	02/24/14	02/27/14
		m,p-Xylene	ND	O	10 µg/Kg	02/24/14	02/27/14
		o-Xylene	ND	O	10 µg/Kg	02/24/14	02/27/14
		Naphthalene	ND	O	80 µg/Kg	02/24/14	02/27/14
Client ID :	EX-6-9						
Lab ID :	STR14022441-10A	TPH-P (GRO)	220,000		40,000 µg/Kg	02/24/14	02/27/14
Date Sampled	02/21/14 07:51	Methyl tert-butyl ether (MTBE)	ND	V	200 µg/Kg	02/24/14	02/27/14
		Benzene	890		200 µg/Kg	02/24/14	02/27/14
		Toluene	ND	V	200 µg/Kg	02/24/14	02/27/14
		Ethylbenzene	4,100		200 µg/Kg	02/24/14	02/27/14
		m,p-Xylene	ND	V	200 µg/Kg	02/24/14	02/27/14
		o-Xylene	ND	V	200 µg/Kg	02/24/14	02/27/14
		Naphthalene	7,300		1,600 µg/Kg	02/24/14	02/27/14



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Client ID :	EX-6-15						
Lab ID :	STR14022441-11A	TPH-P (GRO)	ND		1,000 µg/Kg	02/24/14	02/27/14
Date Sampled	02/21/14 08:05	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	02/24/14	02/27/14
		Benzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Toluene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Ethylbenzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		m,p-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14
		o-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14
Client ID :	EX-6-20						
Lab ID :	STR14022441-12A	TPH-P (GRO)	ND		1,000 µg/Kg	02/24/14	02/27/14
Date Sampled	02/21/14 08:14	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	02/24/14	02/27/14
		Benzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Toluene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Ethylbenzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		m,p-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14
		o-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14
Client ID :	EX-7-4						
Lab ID :	STR14022441-13A	TPH-P (GRO)	ND	O	2,000 µg/Kg	02/24/14	02/27/14
Date Sampled	02/21/14 14:00	Methyl tert-butyl ether (MTBE)	ND	O	10 µg/Kg	02/24/14	02/27/14
		Benzene	ND	O	10 µg/Kg	02/24/14	02/27/14
		Toluene	ND	O	10 µg/Kg	02/24/14	02/27/14
		Ethylbenzene	ND	O	10 µg/Kg	02/24/14	02/27/14
		m,p-Xylene	ND	O	10 µg/Kg	02/24/14	02/27/14
		o-Xylene	ND	O	10 µg/Kg	02/24/14	02/27/14
		Naphthalene	ND	O	80 µg/Kg	02/24/14	02/27/14
Client ID :	EX-7-9						
Lab ID :	STR14022441-14A	TPH-P (GRO)	38,000		10,000 µg/Kg	02/24/14	02/27/14
Date Sampled	02/20/14 14:18	Methyl tert-butyl ether (MTBE)	53		50 µg/Kg	02/24/14	02/27/14
		Benzene	94		50 µg/Kg	02/24/14	02/27/14
		Toluene	67		50 µg/Kg	02/24/14	02/27/14
		Ethylbenzene	110		50 µg/Kg	02/24/14	02/27/14
		m,p-Xylene	100		50 µg/Kg	02/24/14	02/27/14
		o-Xylene	220		50 µg/Kg	02/24/14	02/27/14
		Naphthalene	700		400 µg/Kg	02/24/14	02/27/14
Client ID :	EX-7-15						
Lab ID :	STR14022441-15A	TPH-P (GRO)	ND		1,000 µg/Kg	02/24/14	02/27/14
Date Sampled	02/20/14 14:47	Methyl tert-butyl ether (MTBE)	7.8		5.0 µg/Kg	02/24/14	02/27/14
		Benzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Toluene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Ethylbenzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		m,p-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14
		o-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14
Client ID :	EX-7-20						
Lab ID :	STR14022441-16A	TPH-P (GRO)	ND		1,000 µg/Kg	02/24/14	02/27/14
Date Sampled	02/20/14 14:55	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	02/24/14	02/27/14
		Benzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Toluene	ND		5.0 µg/Kg	02/24/14	02/27/14
		Ethylbenzene	ND		5.0 µg/Kg	02/24/14	02/27/14
		m,p-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14
		o-Xylene	ND		5.0 µg/Kg	02/24/14	02/27/14



# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Gasoline Range Organics (GRO) C4-C13

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

Sample results were calculated on a wet weight basis.

ND = Not Detected

Reported in micrograms per Kilogram, per client request.



*Roger Scholl*     *Randy Gardner*     *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.



3/3/14

Report Date

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# CA

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : STR14022441**  
**Report Due By : 5:00 PM On : 03-Mar-14**

**Client:**  
 Stratus Environmental  
 3330 Cameron Park Drive  
 Suite 550  
 Cameron Park, CA 95682-8861

Report Attention	Phone Number	E-Mail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

EDD Required : Yes

Sampled by : Carl Schulze

PO :


Cooler Temp	Samples Received	Date Printed
3 °C	22-Feb-14	24-Feb-14

Client's COC # : 16281, 16282      Job : 2115-1436-01/Olympic Gas

QC Level : S3      = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks			
				Alpha	Sub	TAT	BNA_S	TPHP_S	VOC_S							
STR14022441-01A	EX-4-4	SO	02/20/14 08:15	1	0	5		GAS-C	BTXE/MTB E/NAPH_C							
STR14022441-02A	EX-4-9	SO	02/20/14 08:31	1	0	5		GAS-C	BTXE/MTB E/NAPH_C							
STR14022441-03A	EX-4-15	SO	02/20/14 08:49	1	0	5		GAS-C	BTXE/M_C							
STR14022441-04A	EX-4-20	SO	02/20/14 08:57	1	0	5		GAS-C	BTXE/M_C							
STR14022441-05A	EX-5-4	SO	02/20/14 10:52	1	0	5		GAS-C	BTXE/MTB E/NAPH_C							
STR14022441-06A	EX-5-9	SO	02/20/14 11:06	1	0	5		GAS-C	BTXE/MTB E/NAPH_C							
STR14022441-07A	EX-5-15	SO	02/20/14 11:25	1	0	5		GAS-C	BTXE/M_C							
STR14022441-08A	EX-5-20	SO	02/20/14 11:33	1	0	5		GAS-C	BTXE/M_C							
STR14022441-09A	EX-6-4	SO	02/21/14 07:47	1	0	5		GAS-C	BTXE/MTB E/NAPH_C							
STR14022441-10A	EX-6-9	SO	02/21/14 07:51	1	0	5		GAS-C	BTXE/MTB E/NAPH_C							

Comments: Security seals intact. Frozen ice. Saturday delivery. Samples kept cold and secure until login Monday. PAHs full list, per email from Scott 2/24/14. :

Signature	Print Name	Company	Date/Time
	Scott Bittinger	Alpha Analytical, Inc.	2/24/14 09:30

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)      Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

# CA

**WorkOrder : STR14022441**  
**Report Due By : 5:00 PM On : 03-Mar-14**

**Client:**  
 Stratus Environmental  
 3330 Cameron Park Drive  
 Suite 550  
 Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

EDD Required : Yes

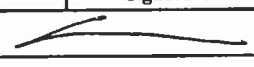
Sampled by : Carl Schulze

**PO :**  
 Client's COC # : 16281, 16282      Job : 2115-1436-01/Olympic Gas  
 QC Level : S3      = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp	Samples Received	Date Printed
3 °C	22-Feb-14	24-Feb-14

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks									
				BNA_S	TPHP_S	VOC_S													
STR14022441-11A	EX-6-15	SO 02/21/14 08:05	1 0 5																
STR14022441-12A	EX-6-20	SO 02/21/14 08:14	1 0 5																
STR14022441-13A	EX-7-4	SO 02/21/14 14:00	1 0 5	8270															
STR14022441-14A	EX-7-9	SO 02/20/14 14:18	1 0 5	8270															
STR14022441-15A	EX-7-15	SO 02/20/14 14:47	1 0 5																
STR14022441-16A	EX-7-20	SO 02/20/14 14:55	1 0 5																

Comments: Security seals intact. Frozen ice. Saturday delivery. Samples kept cold and secure until login Monday. PAHs full list, per email from Scott 2/24/14. :

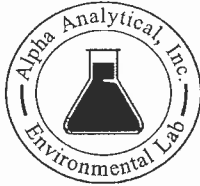
Signature	Print Name	Company	Date/Time
	Sarah Neri	Alpha Analytical, Inc.	2/24/14 09:30

Logged in by: \_\_\_\_\_

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)      Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Company: Status Environmental  
 Attn: \_\_\_\_\_  
 Address: 530 Cameron Park Dr. Ste 550  
Cameron Park, CA  
 City, State, Zip: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



Alpha Analytical, Inc.  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
 Satellite Service Centers:  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801  
 Southern NV: 8255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 918-366-9089  
 Phone: 714-386-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

16281

Page # 1 of 2

Company: Olympic Gas Job # 2115-1436-01 Name: Scott Bittinger QC Deliverable Info:  
 Address: 1436 Grant Ave Job Name: \_\_\_\_\_ Email Address: \_\_\_\_\_ EDD Required? Yes / No EDF Required?  Yes / No  
 City, State, Zip: Son Lorenzo, CA P.O. #: \_\_\_\_\_ Phone #: \_\_\_\_\_ Global ID: \_\_\_\_\_  
 Samples Collected from which State? (circle one) AR  CA KS NV OR WA DOD Site Other Cell #: \_\_\_\_\_ Data Validation Packages: III or IV

Time Sampled (HHMM)	Date Sampled (MMDD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Field Filled?		Analysis Requested					Remarks
							Yes	No	GRD	BTEX	MTBE	naphthalene		
0915	02/20	SO	STA1024L120K	EX-4-4	std	1	X		X	X	X	X		
0831				EX-4-9								X		
0849				EX-4-15										
0857				EX-4-20										
1052				EX-5-4								X		
1106				EX-5-9								X		
1125				EX-5-15										
1133				EX-5-20										
0777	02/21			EX-6-4								X		
0751				EX-6-9								X		
0805				EX-6-15										

ADDITIONAL INSTRUCTIONS:

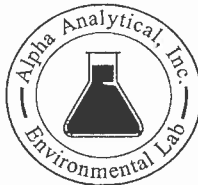
I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: <u>Carl Schuler</u>	Date: <u>02/21/14</u>	Time: <u>1300</u>	Received by: (Signature/Affiliation): <u>Meussat</u>	Date: <u>2-21-14</u>	Time: <u>1300</u>
Relinquished by: (Signature/Affiliation): <u>[Signature]</u>	Date:	Time:	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>2/24/14</u>	Time: <u>0855</u>
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:

\* Key: AQ - Aqueous WA - Waste OT - Other So-Soil \*\*L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other  
 NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.



Billing Information:  
 Company: Stratus Environmental  
 Attn: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



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 Phone: 775-388-7043  
 Phone: 702-281-4848

16282

Page # 2 of 2

**Consultant/ Client Info:      Job and Purchase Order Info:      Report Attention/Project Manager:      QC Deliverable Info:**

Company: Olympic Gas      Job #: 2115-1436-01      Name: \_\_\_\_\_      EDD Required? Yes / No      EDF Required? Yes / No  
 Address: \_\_\_\_\_      Job Name: \_\_\_\_\_      Email Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_      P.O. #: \_\_\_\_\_      Phone #: \_\_\_\_\_      Global ID: \_\_\_\_\_  
 Data Validation Packages:      III      or      IV

Samples Collected from which State? (circle one)    AR    CA    KS    NV    OR    WA    DOD Site    Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered?		Analysis Requested						Remarks
							Yes	No	GRO	BTEX	MTBE	naphthalene	PAH's		
0814	02/21	SD		EX-6-20	std	1	X	X	X	X					
1400	02/20			EX-7-4							X	X			
1418				EX-7-9							X	X			
1447				EX-7-15											
1455				EX-7-20											

ADDITIONAL INSTRUCTIONS: PAH's : polynuclear aromatic hydrocarbons

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0638 (c) (2).

Sampled By: <u>Carl Schulze</u>	Date: <u>02/21/14</u>	Time: <u>1300</u>	Received by: (Signature/Affiliation): <u>Meyssat</u>	Date: <u>2-21-14</u>	Time: <u>1300</u>
Relinquished by: (Signature/Affiliation): <u>[Signature]</u>	Date:	Time:	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>2/24/14</u>	Time: <u>0855</u>
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date:	Time:

\* Key: AQ - Aqueous    WA - Waste    OT - Other    So - Soil    \*\* L - Liter    V - VOA    S - Soil Jar    O - Orbo    T - Tedlar    B - Brass    P - Plastic    OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861

Attn: Scott Bittinger  
Phone: (530) 676-2062  
Fax: (530) 676-6005  
Date Received : 05/31/14

Job: 2115-1436-01/Olympic

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B  
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	<b>MW-5B-5</b>					
Lab ID :	STR14060223-01A	TPH-P (GRO)	4,900	1,000 µg/Kg	06/05/14	06/06/14
Date Sampled	05/28/14 08:06	Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	06/05/14	06/06/14
		Benzene	ND	5.0 µg/Kg	06/05/14	06/06/14
		Toluene	ND	5.0 µg/Kg	06/05/14	06/06/14
		Ethylbenzene	ND	5.0 µg/Kg	06/05/14	06/06/14
		m,p-Xylene	7.3	5.0 µg/Kg	06/05/14	06/06/14
		o-Xylene	ND	5.0 µg/Kg	06/05/14	06/06/14
Client ID :	<b>MW-5B-10</b>					
Lab ID :	STR14060223-02A	TPH-P (GRO)	360,000	20,000 µg/Kg	06/05/14	06/06/14
Date Sampled	05/28/14 08:15	Methyl tert-butyl ether (MTBE)	ND V	100 µg/Kg	06/05/14	06/06/14
		Benzene	ND V	100 µg/Kg	06/05/14	06/06/14
		Toluene	ND V	100 µg/Kg	06/05/14	06/06/14
		Ethylbenzene	1,600	100 µg/Kg	06/05/14	06/06/14
		m,p-Xylene	2,100	100 µg/Kg	06/05/14	06/06/14
		o-Xylene	290	100 µg/Kg	06/05/14	06/06/14
Client ID :	<b>MW-5B-15</b>					
Lab ID :	STR14060223-03A	TPH-P (GRO)	ND	1,000 µg/Kg	06/05/14	06/06/14
Date Sampled	05/28/14 08:23	Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	06/05/14	06/06/14
		Benzene	ND	5.0 µg/Kg	06/05/14	06/06/14
		Toluene	ND	5.0 µg/Kg	06/05/14	06/06/14
		Ethylbenzene	ND	5.0 µg/Kg	06/05/14	06/06/14
		m,p-Xylene	ND	5.0 µg/Kg	06/05/14	06/06/14
		o-Xylene	ND	5.0 µg/Kg	06/05/14	06/06/14
Client ID :	<b>MW-5B-20</b>					
Lab ID :	STR14060223-04A	TPH-P (GRO)	ND	1,000 µg/Kg	06/05/14	06/06/14
Date Sampled	05/28/14 08:31	Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	06/05/14	06/06/14
		Benzene	ND	5.0 µg/Kg	06/05/14	06/06/14
		Toluene	ND	5.0 µg/Kg	06/05/14	06/06/14
		Ethylbenzene	ND	5.0 µg/Kg	06/05/14	06/06/14
		m,p-Xylene	ND	5.0 µg/Kg	06/05/14	06/06/14
		o-Xylene	ND	5.0 µg/Kg	06/05/14	06/06/14
Client ID :	<b>MW-6B-5</b>					
Lab ID :	STR14060223-05A	TPH-P (GRO)	4,300	1,000 µg/Kg	06/05/14	06/06/14
Date Sampled	05/28/14 11:14	Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	06/05/14	06/06/14
		Benzene	ND	5.0 µg/Kg	06/05/14	06/06/14
		Toluene	ND	5.0 µg/Kg	06/05/14	06/06/14
		Ethylbenzene	ND	5.0 µg/Kg	06/05/14	06/06/14
		m,p-Xylene	ND	5.0 µg/Kg	06/05/14	06/06/14
		o-Xylene	ND	5.0 µg/Kg	06/05/14	06/06/14



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Client ID :	<b>MW-6B-10</b>						
Lab ID :	STR14060223-06A	TPH-P (GRO)	110,000		10,000 µg/Kg	06/05/14	06/06/14
Date Sampled	05/28/14 11:21	Methyl tert-butyl ether (MTBE)	ND	V	50 µg/Kg	06/05/14	06/06/14
		Benzene	98		50 µg/Kg	06/05/14	06/06/14
		Toluene	ND	V	50 µg/Kg	06/05/14	06/06/14
		Ethylbenzene	1,000		50 µg/Kg	06/05/14	06/06/14
		m,p-Xylene	1,200		50 µg/Kg	06/05/14	06/06/14
		o-Xylene	390		50 µg/Kg	06/05/14	06/06/14
Client ID :	<b>MW-6B-15</b>						
Lab ID :	STR14060223-07A	TPH-P (GRO)	ND		1,000 µg/Kg	06/05/14	06/06/14
Date Sampled	05/28/14 11:29	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	06/05/14	06/06/14
		Benzene	ND		5.0 µg/Kg	06/05/14	06/06/14
		Toluene	ND		5.0 µg/Kg	06/05/14	06/06/14
		Ethylbenzene	ND		5.0 µg/Kg	06/05/14	06/06/14
		m,p-Xylene	ND		5.0 µg/Kg	06/05/14	06/06/14
		o-Xylene	ND		5.0 µg/Kg	06/05/14	06/06/14
Client ID :	<b>MW-6B-20</b>						
Lab ID :	STR14060223-08A	TPH-P (GRO)	ND		1,000 µg/Kg	06/05/14	06/06/14
Date Sampled	05/28/14 11:37	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	06/05/14	06/06/14
		Benzene	ND		5.0 µg/Kg	06/05/14	06/06/14
		Toluene	ND		5.0 µg/Kg	06/05/14	06/06/14
		Ethylbenzene	ND		5.0 µg/Kg	06/05/14	06/06/14
		m,p-Xylene	ND		5.0 µg/Kg	06/05/14	06/06/14
		o-Xylene	ND		5.0 µg/Kg	06/05/14	06/06/14

### Gasoline Range Organics (GRO) C4-C13

V = Reporting Limits were increased due to high concentrations of target analytes.

Sample results were calculated on a wet weight basis.

ND = Not Detected

Reported in micrograms per Kilogram, per client request.



*Roger Scholl*     *Randy Gardner*     *Walter Hinchman*  
 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
 Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com



*RJ*  
6/9/14

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

**Report Date**



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
10-Jun-14

## QC Summary Report

Work Order:  
14060223

### Method Blank

Type MBLK Test Code: EPA Method SW8015B/C / SW8260B

File ID: 14060910.D

Batch ID: MS08S3037B

Analysis Date: 06/09/2014 14:12

Sample ID: MBLK MS08S3037B

Units: µg/Kg

Run ID: MSD\_08\_140606A

Prep Date: 06/09/2014 14:12

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	1000								
Surr: 1,2-Dichloroethane-d4	162		200		81	70	130			
Surr: Toluene-d8	206		200		103	70	130			
Surr: 4-Bromofluorobenzene	188		200		94	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8015B/C / SW8260B

File ID: 14060620.D

Batch ID: MS08S3037B

Analysis Date: 06/06/2014 17:57

Sample ID: GLCS MS08S3037B

Units: µg/Kg

Run ID: MSD\_08\_140606A

Prep Date: 06/06/2014 17:57

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	13500	2000	16000		84	63	149			
Surr: 1,2-Dichloroethane-d4	297		400		74	70	130			
Surr: Toluene-d8	391		400		98	70	130			
Surr: 4-Bromofluorobenzene	414		400		103	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method SW8015B/C / SW8260B

File ID: 14060621.D

Batch ID: MS08S3037B

Analysis Date: 06/06/2014 18:21

Sample ID: 14060420-03AGS

Units: µg/Kg

Run ID: MSD\_08\_140606A

Prep Date: 06/06/2014 18:21

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	12600	2000	16000		0	79	36	164		
Surr: 1,2-Dichloroethane-d4	306		400		76	70	130			
Surr: Toluene-d8	392		400		98	70	130			
Surr: 4-Bromofluorobenzene	409		400		102	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8015B/C / SW8260B

File ID: 14060622.D

Batch ID: MS08S3037B

Analysis Date: 06/06/2014 18:44

Sample ID: 14060420-03AGSD

Units: µg/Kg

Run ID: MSD\_08\_140606A

Prep Date: 06/06/2014 18:44

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	12500	2000	16000		0	78	36	164	12560	0.5(40)
Surr: 1,2-Dichloroethane-d4	294		400		74	70	130			
Surr: Toluene-d8	401		400		100	70	130			
Surr: 4-Bromofluorobenzene	398		400		99.6	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per Kilogram, per client request.



# Alpha Analytical, Inc.

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Date:  
10-Jun-14

## QC Summary Report

Work Order:  
14060223

### Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 14060910.D

Batch ID: MS08S3037A

Analysis Date: 06/09/2014 14:12

Sample ID: MBLK MS08S3037A

Units: µg/Kg

Run ID: MSD\_08\_140606A

Prep Date: 06/09/2014 14:12

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	5								
Benzene	ND	5								
Toluene	ND	5								
Ethylbenzene	ND	5								
m,p-Xylene	ND	5								
o-Xylene	ND	5								
Surr: 1,2-Dichloroethane-d4	162		200		81	70	130			
Surr: Toluene-d8	206		200		103	70	130			
Surr: 4-Bromofluorobenzene	188		200		94	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 14060617.D

Batch ID: MS08S3037A

Analysis Date: 06/06/2014 16:46

Sample ID: LCS MS08S3037A

Units: µg/Kg

Run ID: MSD\_08\_140606A

Prep Date: 06/06/2014 16:46

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	236	10	400		59	65	145			L50
Benzene	385	10	400		96	70	137			
Toluene	454	10	400		113	70	139			
Ethylbenzene	389	10	400		97	70	137			
m,p-Xylene	421	10	400		105	70	145			
o-Xylene	416	10	400		104	70	145			
Surr: 1,2-Dichloroethane-d4	331		400		83	70	130			
Surr: Toluene-d8	381		400		95	70	130			
Surr: 4-Bromofluorobenzene	375		400		94	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: 14060618.D

Batch ID: MS08S3037A

Analysis Date: 06/06/2014 17:10

Sample ID: 14060322-01AMS

Units: µg/Kg

Run ID: MSD\_08\_140606A

Prep Date: 06/06/2014 17:10

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	232	10	400	0	58	45	155			
Benzene	387	10	400	0	97	52	151			
Toluene	453	10	400	0	113	47	154			
Ethylbenzene	393	10	400	0	98	52	154			
m,p-Xylene	417	10	400	0	104	51	162			
o-Xylene	416	10	400	0	104	52	162			
Surr: 1,2-Dichloroethane-d4	322		400		80	70	130			
Surr: Toluene-d8	389		400		97	70	130			
Surr: 4-Bromofluorobenzene	379		400		95	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: 14060619.D

Batch ID: MS08S3037A

Analysis Date: 06/06/2014 17:34

Sample ID: 14060322-01AMSD

Units: µg/Kg

Run ID: MSD\_08\_140606A

Prep Date: 06/06/2014 17:34

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	224	10	400	0	56	45	155	231.5	3.3(32)	
Benzene	395	10	400	0	99	52	151	386.8	2.2(30)	
Toluene	464	10	400	0	116	47	154	453.5	2.2(28)	
Ethylbenzene	401	10	400	0	100	52	154	392.7	2.1(37)	
m,p-Xylene	429	10	400	0	107	51	162	417.3	2.8(34)	
o-Xylene	426	10	400	0	107	52	162	415.9	2.4(40)	
Surr: 1,2-Dichloroethane-d4	319		400		80	70	130			
Surr: Toluene-d8	393		400		98	70	130			
Surr: 4-Bromofluorobenzene	378		400		94	70	130			



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
10-Jun-14

## QC Summary Report

Work Order:  
14060223

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

L50 = Analyte recovery was below acceptance limits for the LCS, but was acceptable in the MS/MSD.

Billing Information :

# CHAIN-OF-CUSTODY RECORD

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

# CA

**WorkOrder : STR14060223**  
**Report Due By : 5:00 PM On : 09-Jun-14**

**Client:**  
 Stratus Environmental  
 3330 Cameron Park Drive  
 Suite 550  
 Cameron Park, CA 95682-8861

Report Attention	Phone Number	EEmail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

EDD Required : Yes

Sampled by : Carl Schulze

PO :  
 Client's COC # : 16772                      Job : 2115-1436-01/Olympic

Cooler Temp	Samples Received	Date Printed
0 °C	31-May-14	02-Jun-14

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

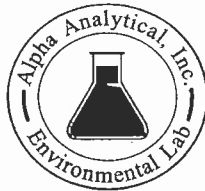
Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests							Sample Remarks		
				Alpha	Sub	TAT	TPHP_S	VOC_S								
STR14060223-01A	MW-5B-5	SO	05/28/14 08:06	1	0	5	GAS-C	BTXE/M_C								
STR14060223-02A	MW-5B-10	SO	05/28/14 08:15	1	0	5	GAS-C	BTXE/M_C								
STR14060223-03A	MW-5B-15	SO	05/28/14 08:23	1	0	5	GAS-C	BTXE/M_C								
STR14060223-04A	MW-5B-20	SO	05/28/14 08:31	1	0	5	GAS-C	BTXE/M_C								
STR14060223-05A	MW-6B-5	SO	05/28/14 11:14	1	0	5	GAS-C	BTXE/M_C								
STR14060223-06A	MW-6B-10	SO	05/28/14 11:21	1	0	5	GAS-C	BTXE/M_C								
STR14060223-07A	MW-6B-15	SO	05/28/14 11:29	1	0	5	GAS-C	BTXE/M_C								
STR14060223-08A	MW-6B-20	SO	05/28/14 11:37	1	0	5	GAS-C	BTXE/M_C								

Comments: Security seals intact. Frozen ice. Saturday delivery. Samples kept cold and secure until login on Monday. :

Signature	Print Name	Company	Date/Time
<i>K Murray</i>	K Murray	Alpha Analytical, Inc.	6/2/14 1120

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)      Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing Information:**  
 Company: Olympic Stratus Environmental  
 Attn: \_\_\_\_\_  
 Address: 3330 Cameron Park Dr. Suite 550  
 City, State, Zip: Cameron Park, CA  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



**Alpha Analytical, Inc.**  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
**Satellite Service Centers:**  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-386-9089  
 Phone: 714-386-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

16772

Page # 1 of 1

**Consultant/ Client Info:**  
 Company: Olympic  
 Address: 1436 Grant Ave.  
 City, State, Zip: San Lorenzo, CA

**Job and Purchase Order Info:**  
 Job # 215-1436-01  
 Job Name: \_\_\_\_\_  
 P.O. #: \_\_\_\_\_

**Report Attention/Project Manager:**  
 Name: Scott Billinger  
 Email Address: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Cell #: \_\_\_\_\_

**QC Deliverable Info:**  
 EDD Required? Yes / No      EDF Required?  Yes / No  
 Global ID: \_\_\_\_\_  
 Data Validation Packages: III or IV

Samples Collected from which State? (circle one) **AR** CA KS NV OR WA DOD Site Other

Time Sampled (HH:MM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Analysis Requested			Remarks	
							Field Filled?	GRO	BTEX		MTBE
							Yes	No			
0806	05/28	SO		MW-SB-5	std	1P	X		X		
0815				MW-SB-10							
0823				MW-SB-15							
0831				MW-SB-20							
1114				MW-6B-5							
1121				MW-6B-10							
1129				MW-6B-15							
1137				MW-6B-20							

**ADDITIONAL INSTRUCTIONS:**

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: <u>Carl Schuler</u>	Date: <u>05/30/14</u>	Time: <u>1229</u>	Received by: (Signature/Affiliation): <u>E. F. M. U. AND</u>	Date: <u>053014</u>	Time: <u>1229</u>
Relinquished by: (Signature/Affiliation): <u>[Signature]</u>	Date: _____	Time: _____	Received by: (Signature/Affiliation): <u>K. Munnery/AM</u>	Date: <u>6/2/14</u>	Time: <u>1115</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

\* Key: AQ - Aqueous    WA - Waste    OT - Other    So-Soil    \*\*L - Liter    V - VOA    S-Soil Jar    O - Orbo    T - Tedlar    B - Brass    P - Plastic    OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.



## **APPENDIX G**

### **GEOTRACKER DATA UPLOAD CONFIRMATION SHEETS**

STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_BORE FILE

## SUCCESS

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	<b>GEO_BORE</b>
<b><u>Facility Global ID:</u></b>	<b>T0600102256</b>
<b><u>Field Point:</u></b>	<b>EX-4</b>
<b><u>Facility Name:</u></b>	<b>OLYMPIC STATION</b>
<b><u>File Name:</u></b>	<b>SKMBT_C35314030713410.pdf</b>
<b><u>Organization Name:</u></b>	<b>Stratus Environmental, Inc.</b>
<b><u>Username:</u></b>	<b>STRATUS NOCAL</b>
<b><u>IP Address:</u></b>	<b>50.192.223.97</b>
<b><u>Submittal Date/Time:</u></b>	<b>3/7/2014 12:55:03 PM</b>
<b><u>Confirmation Number:</u></b>	<b>5450112521</b>

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<b><u>Submittal Type:</u></b>	<b>GEO_BORE</b>
<b><u>Facility Global ID:</u></b>	<b>T0600102256</b>
<b><u>Field Point:</u></b>	<b>EX-5</b>
<b><u>Facility Name:</u></b>	<b>OLYMPIC STATION</b>
<b><u>File Name:</u></b>	<b>SKMBT_C35314030713411.pdf</b>
<b><u>Organization Name:</u></b>	<b>Stratus Environmental, Inc.</b>
<b><u>Username:</u></b>	<b>STRATUS NOCAL</b>
<b><u>IP Address:</u></b>	<b>50.192.223.97</b>
<b><u>Submittal Date/Time:</u></b>	<b>3/7/2014 12:55:42 PM</b>
<b><u>Confirmation Number:</u></b>	<b>3088875949</b>

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<b><u>Submittal Type:</u></b>	<b>GEO_BORE</b>
<b><u>Facility Global ID:</u></b>	<b>T0600102256</b>
<b><u>Field Point:</u></b>	<b>EX-6</b>
<b><u>Facility Name:</u></b>	<b>OLYMPIC STATION</b>
<b><u>File Name:</u></b>	<b>SKMBT_C35314030713412.pdf</b>
<b><u>Organization Name:</u></b>	<b>Stratus Environmental, Inc.</b>
<b><u>Username:</u></b>	<b>STRATUS NOCAL</b>
<b><u>IP Address:</u></b>	<b>50.192.223.97</b>
<b><u>Submittal Date/Time:</u></b>	<b>3/7/2014 12:56:22 PM</b>
<b><u>Confirmation Number:</u></b>	<b>6353959560</b>

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<b><u>Submittal Type:</u></b>	<b>GEO_BORE</b>
<b><u>Facility Global ID:</u></b>	<b>T0600102256</b>
<b><u>Field Point:</u></b>	<b>EX-7</b>
<b><u>Facility Name:</u></b>	<b>OLYMPIC STATION</b>
<b><u>File Name:</u></b>	<b>SKMBT_C35314030713420.pdf</b>
<b><u>Organization Name:</u></b>	<b>Stratus Environmental, Inc.</b>
<b><u>Username:</u></b>	<b>STRATUS NOCAL</b>
<b><u>IP Address:</u></b>	<b>50.192.223.97</b>
<b><u>Submittal Date/Time:</u></b>	<b>3/7/2014 12:56:59 PM</b>
<b><u>Confirmation Number:</u></b>	<b>5012409269</b>

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<b><u>Submittal Type:</u></b>	<b>GEO_BORE</b>
<b><u>Facility Global ID:</u></b>	<b>T0600102256</b>
<b><u>Field Point:</u></b>	<b>MW-5A</b>
<b><u>Facility Name:</u></b>	<b>OLYMPIC STATION</b>
<b><u>File Name:</u></b>	<b>SKMBT_C35314060614310.pdf</b>
<b><u>Organization Name:</u></b>	<b>Stratus Environmental, Inc.</b>
<b><u>Username:</u></b>	<b>STRATUS NOCAL</b>
<b><u>IP Address:</u></b>	<b>50.192.223.97</b>
<b><u>Submittal Date/Time:</u></b>	<b>6/6/2014 2:45:36 PM</b>
<b><u>Confirmation Number:</u></b>	<b>1342714428</b>

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<b><u>Facility Global ID:</u></b>	<b>T0600102256</b>
<b><u>Field Point:</u></b>	<b>MW-5B</b>
<b><u>Facility Name:</u></b>	<b>OLYMPIC STATION</b>
<b><u>File Name:</u></b>	<b>SKMBT_C35314060614320.pdf</b>
<b><u>Organization Name:</u></b>	<b>Stratus Environmental, Inc.</b>
<b><u>Username:</u></b>	<b>STRATUS NOCAL</b>
<b><u>IP Address:</u></b>	<b>50.192.223.97</b>
<b><u>Submittal Date/Time:</u></b>	<b>6/6/2014 2:46:16 PM</b>
<b><u>Confirmation Number:</u></b>	<b>4163184881</b>

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<b><u>Submittal Type:</u></b>	<b>GEO_BORE</b>
<b><u>Facility Global ID:</u></b>	<b>T0600102256</b>
<b><u>Field Point:</u></b>	<b>MW-6A</b>
<b><u>Facility Name:</u></b>	<b>OLYMPIC STATION</b>
<b><u>File Name:</u></b>	<b>SKMBT_C35314060614321.pdf</b>
<b><u>Organization Name:</u></b>	<b>Stratus Environmental, Inc.</b>
<b><u>Username:</u></b>	<b>STRATUS NOCAL</b>
<b><u>IP Address:</u></b>	<b>50.192.223.97</b>
<b><u>Submittal Date/Time:</u></b>	<b>6/6/2014 2:46:48 PM</b>
<b><u>Confirmation Number:</u></b>	<b>3312079727</b>

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<b><u>Submittal Type:</u></b>	<b>GEO_BORE</b>
<b><u>Facility Global ID:</u></b>	<b>T0600102256</b>
<b><u>Field Point:</u></b>	<b>MW-6B</b>
<b><u>Facility Name:</u></b>	<b>OLYMPIC STATION</b>
<b><u>File Name:</u></b>	<b>SKMBT_C35314060614322.pdf</b>
<b><u>Organization Name:</u></b>	<b>Stratus Environmental, Inc.</b>
<b><u>Username:</u></b>	<b>STRATUS NOCAL</b>
<b><u>IP Address:</u></b>	<b>50.192.223.97</b>
<b><u>Submittal Date/Time:</u></b>	<b>6/6/2014 2:47:20 PM</b>
<b><u>Confirmation Number:</u></b>	<b>5321262419</b>

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UPLOADING A GEO\_XY FILE

## SUCCESS

Processing is complete. No errors were found!  
Your file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_XY
<b><u>Report Title:</u></b>	Well Installation 2014
<b><u>Facility Global ID:</u></b>	T0600102256
<b><u>Facility Name:</u></b>	OLYMPIC STATION
<b><u>File Name:</u></b>	Geo_XY.zip
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	50.192.223.97
<b><u>Submittal Date/Time:</u></b>	6/3/2014 10:26:15 AM
<b><u>Confirmation Number:</u></b>	<b>3814638257</b>

[VIEW GEO\\_XY SUBMITTAL DATA ON MAP](#)

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UPLOADING A GEO\_Z FILE

**SUCCESS**

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<b><u>Submittal Type:</u></b>	GEO_Z
<b><u>Report Title:</u></b>	Well Installation 2014
<b><u>Facility Global ID:</u></b>	T0600102256
<b><u>Facility Name:</u></b>	OLYMPIC STATION
<b><u>File Name:</u></b>	Geo_Z.zip
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	50.192.223.97
<b><u>Submittal Date/Time:</u></b>	6/3/2014 10:27:54 AM
<b><u>Confirmation Number:</u></b>	<b>9246833562</b>

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UPLOADING A GEO\_MAP FILE

**SUCCESS**

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<b><u>Submittal Type:</u></b>	GEO_MAP
<b><u>Facility Global ID:</u></b>	T0600102256
<b><u>Facility Name:</u></b>	OLYMPIC STATION
<b><u>File Name:</u></b>	GeoMap.pdf
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	50.192.223.97
<b><u>Submittal Date/Time:</u></b>	6/3/2014 10:28:25 AM
<b><u>Confirmation Number:</u></b>	<b>5075835466</b>

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UPLOADING A EDF FILE

## SUCCESS

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<b><u>Submittal Type:</u></b>	<b>EDF</b>
<b><u>Report Title:</u></b>	<b>Well Installation and Site Assessment Report</b>
<b><u>Report Type:</u></b>	<b>Site Investigation</b>
<b><u>Facility Global ID:</u></b>	<b>T0600102256</b>
<b><u>Facility Name:</u></b>	<b>OLYMPIC STATION</b>
<b><u>File Name:</u></b>	<b>14022441_EDF.zip</b>
<b><u>Organization Name:</u></b>	<b>Stratus Environmental, Inc.</b>
<b><u>Username:</u></b>	<b>STRATUS NOCAL</b>
<b><u>IP Address:</u></b>	<b>50.192.223.97</b>
<b><u>Submittal Date/Time:</u></b>	<b>3/10/2014 1:25:58 PM</b>
<b><u>Confirmation Number:</u></b>	<b>4318485319</b>

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UPLOADING A EDF FILE

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<b><u>Submittal Type:</u></b>	<b>EDF</b>
<b><u>Report Title:</u></b>	<b>Well Installation and Site Assessment Report</b>
<b><u>Report Type:</u></b>	<b>Site Assessment Report</b>
<b><u>Facility Global ID:</u></b>	<b>T0600102256</b>
<b><u>Facility Name:</u></b>	<b>OLYMPIC STATION</b>
<b><u>File Name:</u></b>	<b>14060223_EDF.zip</b>
<b><u>Organization Name:</u></b>	<b>Stratus Environmental, Inc.</b>
<b><u>Username:</u></b>	<b>STRATUS NOCAL</b>
<b><u>IP Address:</u></b>	<b>50.192.223.97</b>
<b><u>Submittal Date/Time:</u></b>	<b>6/11/2014 12:46:09 PM</b>
<b><u>Confirmation Number:</u></b>	<b>9352846264</b>

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